[54] **ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY**

[76] Inventors: **James W. Magill**, 104 Lily Ct., Allen, Tex. 75002; **Kathleen M. Adams**, 6823 Winding Rose Trail, Dallas, Tex. 75252; **Fred A. Sammet**, 2801 Rigsbee Dr., Plano, Tex. 75074-4707

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,799,156	1/1989	Shavit et al.	364/408
4,951,196	8/1990	Jackson	364/401
5,202,977	4/1993	Pasete, Jr. et al.	364/200

FOREIGN PATENT DOCUMENTS

2278368	of 1990	Japan	G06F 15/38
3218540	9/1991	Japan	G06F 11/28

OTHER PUBLICATIONS

David Spooner 'A data Translation Tool for Engineering Systems' 1989 pp. 96–104.
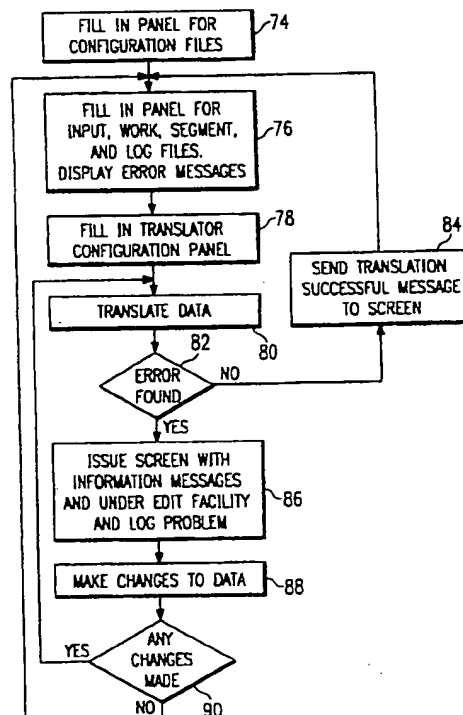Meera M. Blattner et al. 'A User Interface for computer–Based Message Translation' 1989 pp. 43–51 Ref. (AB).
Meera M. Blattner et al. 'A Visual Interface for Generic Message Translation' 1988 pp. 121–126 Ref. (AA).
Hwa–Yea Chang et al. 'Circuit simulation and Modeling' 1990 pp. 8–13.

Primary Examiner—Robert W. Beausoliel
Assistant Examiner—Albert Decady
Attorney, Agent, or Firm—Tammy L. Williams; Richard L. Donaldson

[57] **ABSTRACT**

A method and system for electronic data interchange (EDI) translation testing displays a plurality of operator-interactive panels for controlling pre-production translation of EDI document files. The EDI Test Facility integrates numerous translator programs to detect translation errors. Once an error is detected, the EDI test facility displays the translation error and permits an operator to interactively correct the segment of the EDI document file containing the error. Once the error is corrected, the EDI Test Facility permits retranslation of the segment. When correctly translated, the segment is added to all previously corrected segments of the EDI document file in a working file. The method and system continue until stopped by the operator or EDI document file translation is complete.

7 Claims, 4 Drawing Sheets

10

```
┌─────────────────────────────────────────────────────────────────┐
│ ──────────────────── TRANSLATOR CONFIGURATION ─────────────────  │
│  COMMAND  ===>. ⁄12                          .SCROLL ===>.CSR .   │
│  Enter/Verify EDI Parameters Below:                              │
│                                                                   │
│  Program.===>. ⁄14              26⟍ (Translator Name)             │
│  Plan   .===>. ⁄16              28⟍ (DB2 Plan)                    │
│  Steplib .===>. ⁄18             30⟍.(Full Name, No Quotes)        │
│          .===>. ⟍20             32⟋.(Full Name, No Quotes)        │
│  Parms  .===>. ⟍22             34⟋.(Translator Parms)            │
│  Again  .===>. ⟍  .            36⟋.(Yes/No, Default=Yes)         │
│                  ⟍24                                              │
│                                                                   │
│                                                                   │
│  914C/G 361 1 5 15        ADATSAGT  KBD   a      Printing         │
└─────────────────────────────────────────────────────────────────┘
```

FIG. 1

38

```
┌─────────────────────────────────────────────────────────────────┐
│ ──────────────────────── TEST FACILITY ─────────────────────     │
│  COMMAND  ===>. ⁄12                          .SCROLL ===>.CSR .   │
│  Enter/Verify EDI Parameters Below:                              │
│         42  ⸝40                                                   │
│  Input  .=(=>.AAAP.EDI.I.XPCVMRT      ⎧ .(Full Name, No Quotes)   │
│  Work   .===>!DAMMSBG.WORK            ⎪ .(Full Name, No Quotes)   │
│  Segment.===>.DAMMSBG.SEGMENT     48⟋⎨ .(Full Name, No Quotes)   │
│  Log    .=(=>.DAMMSBG.LOG             ⎩ .(Full Name, No Quotes)   │
│         44  ⌐46                                                   │
│  Sgmt   Error                                                    │
│  Number Explanation                                              │
│  xxxxxxxxxxxxxxxxxxxxxxxxx BOTTOM OF DATA xxxxxxxxxxxxxxxxxxxxxxxx │
│                                                                   │
│                                                                   │
│  914C/G 361 1 5 16        ADATSAGL    a       Printing           │
└─────────────────────────────────────────────────────────────────┘
```

FIG. 2

```
                                    38                        53
                                    |                         |
┌──────────────────────────────────────────────────────────────────┐
│ ──────────────────────── TEST FACILITY ──^TRANSLATION INCOMPLETE^  │
│ COMMAND  ===)^ ⁻12                          ^SCROLL ===)^PAGE^      │
│ Enter/Verify EDI Parameters Below:                                 │
│           44                                                       │
│ Input    ^==⁼)^DAMMKMM.F B.DATA            ^(Full Name, No Quotes)  │
│ Work     ^==⁼)^DACCJBM.WORK                ^(Full Name, No Quotes)  │
│ Segment^===)^DACCJBM.SEGMENT               ^(Full Name, No Quotes)  │
│ Log      ^===)^DACCJBM.LOG                  ^(Full Name, No Quotes) │
│ 50                                                                 │
│ Sgmt    Error ⁻52                                                  │
│ Number Explanation                                                 │
│ 000003^^ERR14 ,Bad sql return code -924..                          │
│ XXXXXXXXXXXXXXXXXXXXXXXX BOTTOM OF DATA XXXXXXXXXXXXXXXXXXXXXXXXXXX  │
│                                                                    │
│                                                                    │
│ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  │
│ 914C/G 361 1 5 16        ADATSAIY     a      Printing    11:06:28   │
└──────────────────────────────────────────────────────────────────┘
```
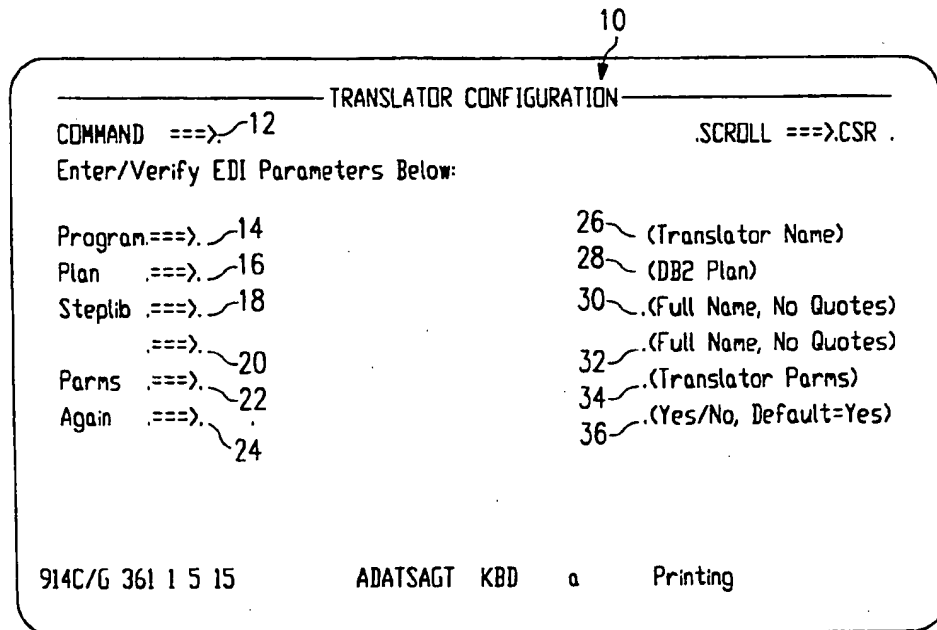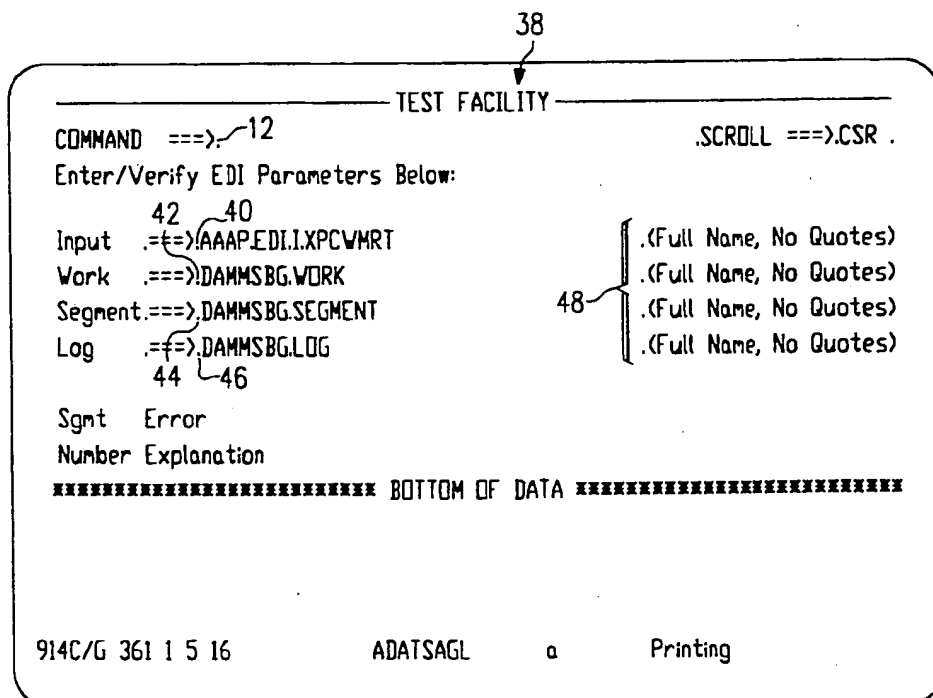
FIG. 3

```
 56                 54
EDIT————DACCJBM.SEGMENT————————————————COLUMNS 001 072^
COMMAND  ===)^                              ^SCROLL ===)^CSR^
RESULTS OF TRANSLATION:  58   62            64
Standard:^ANSI  60 ^Release:^00200^Version:^002001    ^Agency:^X ^
   Last Segment Processed Successfully:^000002^                66
70 Reason:^ERR14 ,Bad sql return code -924.. 68
Correct Identified Errors And Hit PF3 To Retranslate  72
                                                                    ^
   ——————————————————————————————————————————————————————————————
   XXXXXXXXXXXXXXXXXXXXXXXXXXX TOP OF DATA XXXXXXXXXXXXXXXXXXXXXXXXXXX
   000001^ISAX00X      X00X    X01X009122532      X01X007321904      X91
   000002^GSXPDX153647706X007321904X910806X1937X1189XXX002001^
   000003^STX850X8114065^
   000004^BEGX00XSAX38114065XXX910806XX91-29A^
   000005^TAXX03-04737-006XXXXXXXXXXXX3^
   000006^NIXBYXCOLORADO TELECOMMUNICATION DIVX92X38010000^
   000007^PERXBDXGARY THOMSENXTEX719-531-4248^
   000008^NIXAKXCOLORADO TELECOMMUNICATION DIVX92X38010101^
   000009^NIXSTXCOLORADO TELECOMMUNICATION DIVX92X38010201^
   000010^NIXBTXCOLORADO TELECOMMUNICATION DIVX92X38010001^
   000011^NIXSEXTEXAS INSTRUMENTS INC^
   000012^PO1X1X900XEAX0.29XXBPX1826-1439XVPXTLC555CP^
   000013^SCHX900XEAXXXX002X910930^
   000014^TD5X0X92X09XXXXXXSBXWDX5^
   . . . . . . . . . . . . . . . . . . . . . . . . . . .
   914C/G 361 1 5 15        ADATSAIY      a      Printing      11:05:56
```

FIG. 4
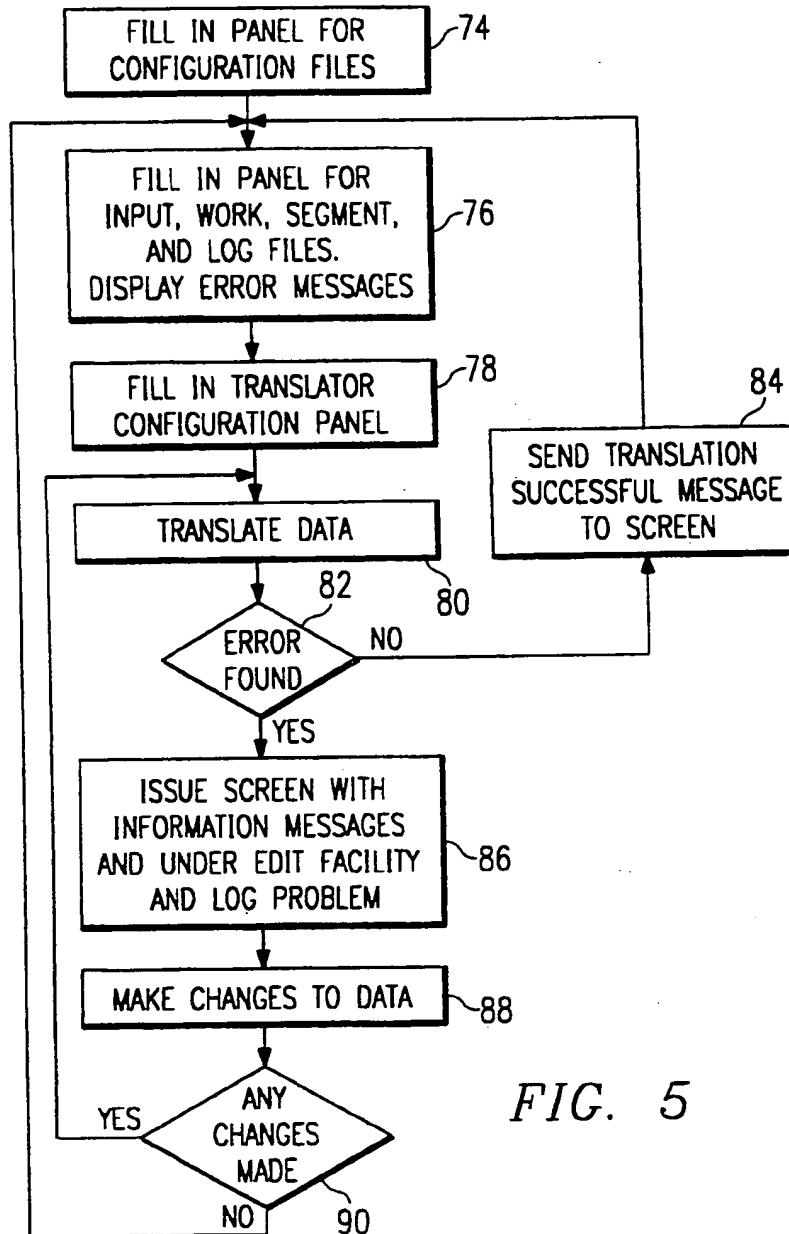
FIG. 5

ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY

A portion of the disclosure of this patent document contains material which is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in the Patent and Trademark Office patent file or records, but otherwise reserves all copyright rights whatsoever.

TECHNICAL FIELD OF THE INVENTION

The present invention relates to the methods and systems for testing the transmission of data and more particularly, to a method for testing the transmission of electronic data interchange (EDI) documents files.

BACKGROUND OF THE INVENTION

In recent years many companies, in trading with other companies, for the transmission and receipt or interchange of business information have come to use computerized systems known as electronic data interchange or EDI systems. EDI systems enjoy the particular advantage of having an established set of standards applicable to various types of business documents. For example, in an EDI system, an invoice has a defined format and, as a result, may be rapidly transmitted between trading partners as a compact data file from the sending trading partner's computer to the receiving trading partner's computer. To create the compact data files, an EDI operator must first translate the EDI documents. The EDI document files are compact data files that the receiving trading partner receives. These compact data files are translated back into documents by the receiving trading partner.

Applications for EDI methods and systems include business activities such as purchasing, accounts payable and accounts receivable functions, banking transactions, electronic funds transfer and other document transfers. Other EDI system applications include order filling and processing between trading partners. Not only is this helpful in buying and selling goods, but also trading partners that are transportation companies may use this information to maximize the efficiency of the transportation services they provide. By using EDI systems, a trucking company, for example, may easily keep track of the origin and destination of all of its shipments throughout its service region.

The format standards for EDI documents are generally loosely written so that they can satisfy a wide variety of user needs. Thus, for example, while an EDI invoice format may have well-defined data fields, several aspects of the EDI invoice are variable. As a result, trading partners who agree to use an EDI system may agree to the format of communication between them prior to conducting a business transaction, and thereafter communication between the trading partners has the potential to occur on an almost immediate basis.

Although EDI systems represent a significant improvement in business communications between trading partners, known EDI systems stand in need of improvement in document translation efficiency. A particular problem in the translation of EDI documents is the need to assure that the documents, as they are generated from various points within a trading partner, satisfy the EDI document format EDI requirements. This is particularly important in cases where failure to satisfy applica-

ble EDI document format requirements causes the translation to be either significantly incorrect or fully prohibited. It is, therefore, important that the sending trading partner ascertain that all documents satisfy the information and format requirements of the receiving trading partner before the trading partner sends them.

Known methods of testing EDI document translations require that when a receiving trading partner encounters a transmission error, the sending partner must identify and correct the error and, then, resend a corrected test EDI document file. This process often requires numerous iterations and creates time lapses which strain productivity. Correcting translation errors using a conventional EDI editing system has not proven practical, because any adjustment in the data link of EDI transmission requires that every character following the modification be adjusted. This results in a significant amount of tedious effort between both trading partners. This type of batch processing by the recipient is further limited, because only upon the detection of an error by the recipient can action be taken to correct the problem. Once this problem is corrected, it is necessary to completely rerun the file which may be halted again as a result of yet another error later in the EDI document file translation.

As a result, in order for EDI document transmissions to reach their full potential efficiency and speed there is a need for as a method and system for rapidly increasing the data translation rate between trading partners, it is necessary to have a rapid EDI translation test facility that does not strain the productivity of the receiving trading partner.

There is a need for a method and system that eliminates the batch processing necessary to identify errors in EDI translations.

There is yet the need for a method and system that permits EDI system operators to identify and correct EDI transmission errors without the need to begin again the EDI document file translation process.

SUMMARY OF THE INVENTION

The present invention, accordingly, provides an electronic data interchange testing method and system that overcomes the problems and satisfies the needs previously considered.

According to one aspect of the invention, there is provided a method for pre-production translation testing of EDI document files that comprises the steps of generating a plurality of control displays for controlling the pre-production translation of the EDI document file. Next, translation of the file takes place until a translation error arises. The method of the present invention is to display the translation error on one of the control displays so that the error may be corrected using an input to the control display. The next step is to correct the displayed translation error as indicated by the control display. This process of translating the file until a translation error arises, displaying the translation error for correction, and correcting the translation error continues until the EDI file is fully translated.

According to another aspect of the invention, there is provided within one of the control displays a plurality of initial queries for inputting initialization data pertaining to the EDI document file. The queries relate to the particular translation configuration for translating the data into a particular application program that has the ability to use the EDI document file. Moreover, a particularly attractive aspect of the invention is its ability

to produce textual segment files for containing in textual form predetermined segments of the EDI file and permitting an operator to edit the textual segment file in response to the indicated translation error. Once all errors have been noted and a translation of the relevant section is complete, the segment is stored in a working file. The working file contains all of the previously corrected segments. Through this segmented approach, the working file becomes a corrected copy of the original EDI document file. Hence, upon the complete translation of the original EDI document file, the operator has the original EDI document file and a working EDI document file that was created by the segmentation process.

A technical advantage of the present invention is that it permits EDI systems to realize their intended benefits by eliminating redundant data flows that occur in known systems when EDI document files have translation errors. The EDI test facility of the present invention provides the receiving trading partner the ability to perform pre-production translation testing of EDI document files just prior to their translation. As a result, the EDI document file is fully translated and any errors incurred during this process are logged and can be made available to the sending trading partner as advised corrections; thus minimizing unproductive time lapses and iterative communication cycles between trading partners.

Another advantage of the present invention is that it fully avoids the batch processing that was heretofore necessary in the detecting EDI transmission file errors. Using the method and system of the present invention, a trading partner may employ the EDI test facility to correct interactively EDI document file transmission errors. This allows the trading partner to perform a single EDI document file translation and therefrom produce an error-free translated EDI document file. Because only one translation operation is necessary to produce the error-free EDI document file, the present invention eliminates much of the tedious work and productivity strain presently existing in EDI document file translation.

Yet another advantage of the present invention is that it permits the integration of numerous EDI application programs for error correction and translation. The integration that the present invention provides is functionally transparent to the operator and permits EDI document file translation with any type of translator. The solution that the preferred embodiment provides permits changing the test process from one in which a number of inadequate or unrelated tools are used for EDI translation to a process where an integrated and easy to use tool kit exists to aid the EDI translation operator. As a result, the interactive testing that the preferred embodiment provides significantly reduces transmission testing cycle time. This reduces software development costs and improves overall productivity in EDI document file applications among trading partners.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention and its modes of use and advantages are best understood by reference to the following description of illustrative embodiments when read in conjunction with the accompanying drawings, wherein:

FIG. 1 through 4 are various translation screens usable in a association with the preferred embodiment;

FIG. 5 is a flow chart illustrating the operation of the EDI test facility of the preferred embodiment; and

APPENDIX A provides a listing of the software code that the preferred embodiment of the present invention implements for EDI document file translation testing.

DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiment of the present invention is best understood by referring to the FIGUREs wherein like numerals are used for like and corresponding parts of the various drawings.

The EDI test facility of the preferred embodiment integrates within the EDI system environment an operator interactive translation test facility that is accessible through a computer time share option link. In this environment, the EDI test facility of the preferred embodiment has numerous test configuration options. The EDI test facility of the preferred embodiment integrates its operation with the principal communication path among EDI partners for EDI transmissions known as the EDI system gateway. This permits an EDI system operator to locate and select an EDI transmission file for immediate translation testing. Once translation testing has commenced, error situations are brought to the operator's attention along with recommendations for correcting the error. The operator has the option to fix the error and continue testing until the translator detects another translation error. As translation testing continues, the test results are saved into a working file. The working file may be tested to verify a successful translation. Additionally, the preferred embodiment generates a log file to provide the operator with a listing of errors encountered during translation testing.

The EDI test facility may be used on any computer equipped to perform EDI translations and may operate in conjunction with any commercially available EDI translator software package. Examples of translator packages usable with the preferred embodiment include the following: transettlements, interbridge and proprietary translators.

To use the EDI test facility of the preferred embodiment, the operator may enter a time sharing option and receive an EDI document file on which to perform testing. To perform the operation, the EDI test facility of the preferred embodiment presents the operator with a set of operator friendly panels. FIGS. 1-4 illustrate the panels or screens that the operator sees in testing EDI document file for translation errors. In particular, FIG. 1 illustrates the "Translator Configuration Screen" that the preferred embodiment provides to the EDI translation test operator. The Translator Configuration Screen of FIG. 1, as indicated by Translator Configuration label 10, permits the operator to input a Command for EDI translation at point 12 of the screen, the EDI translator program that the operator will use at point 14, the EDI translation plan at point 16, the EDI Steplib, at points 18 and 20, EDI parms at point 22, and at point 24 the ability to respond to a query of whether a translation identified at points 14-22 as being translated again.

The EDI Steplib input defines a library associated with the test facility wherein the translator program resides, and the EDI parms input receives the parameters that the operator desires to pass to the translator program. The operator may provide these Translator Configuration Screen inputs to the EDI test facility of the preferred embodiment using a key board or other computer input device.

Associated with each of the inputs of points 14–24 are respective parameter descriptors. In particular, for the Program input point 14, the preferred embodiment indicates at point 26 that the proper response to the program input 14 is the "Translator Name." For the EDI plan input 16, the "DB2 Plan" parameter descriptor 28 means that for this particular translator, the DB2 plan is used. For Steplib inputs 28 and 20, descriptors 30 and 32 specify that the "Full Name" of the Steplib is necessary and that no quotes may be used. Parms input 22 must be Translated Parms, as descriptor 34 indicates. The appropriate response for the "Again" input 24 is "yes" or "no" with a default to "yes" as indicated by descriptor 36.

Once the operator establishes the translator configuration by appropriately responding to the Translator Configuration Screen of FIG. 1, the operator indicates the completion of this step by hitting the enter key. Test Facility Screen of FIG. 2 appears. Immediately thereafter, identifies Test Facility label 38 the Test Facility Screen. With this screen, the operator may input a command at point 12 and set up particular files necessary to perform the EDI document file transmission testing. For example, in the preferred embodiment, the operator provides to the EDI Test Facility the input file at point 40. In this example, the input file has the name, ".AAA.EDI.I.EXPCWMRT." The operator defines a work file at point 42 (e.g., ".DAMMSBG.WORK"), a segment file at point 44 (e.g., ".DAMMSBG.SEG-MENT"), and a log file (e.g., "DAMMSBG.LOG") at point 46. The Test Facility Screen also assists the operator by describing the types of fields necessary at points 40–46 by the input descriptors 48 which appear as ".(Full Name, No Quotes)."

In response to this information and a subsequent command to conduct testing that the operator inputs at point 12, the Test Facility Screen can display the existence of a translation error. FIG. 3 shows the Test Facility screen that appears during translation testing. FIG. 3 shows outputs at Segment Number designator 50 and Error Explanation output 52 to provide indication of errors. In the example, the segment number where an error exists is segment number "000003" having an associated error code of "EER14" and an explanation of "Bad Sql Return Code - 924." This means that at segment number 000003 there was a DB2 problem in the EDI document file translation. With this error identifying information, the operator may insert an "Edit" command into the Command input point 12 of the Test Facility Screen to see the Edit Screen that appears at FIG. 4.

The preferred embodiment of the present invention, upon identifying the translation error, places a segment of the original input file that contains the translation error into a segment file. The segment file, in the example of the preferred embodiment, is identified at point 44 of the Test Facility Screens of FIGS. 2 and 3 and the Edit Screen designator 54. The Edit Screen designator 54 shows that the segment file name is "DACCJBM-.SEGMENT." The Edit Label 56 indicates to the operator that the operator is viewing the Edit Screen.

In the Edit Screen, as in the Translator Configuration Screen of FIG. 1 and the Test Facility Screen of FIGS. 2 and 3, command input 12 permits the operator to provide a command input. Other outputs of the Edit Screen include descriptive output of the results of the translation at output point 58, the Standard for translation at point 60 (e.g., "ANSI") the Release descriptor at output point 62, (e.g., "00200"), the applicable Version at output point 64 (e.g., "002001"), and the particular Agency for output at point 66 (e.g., "X"). Because of the "Last Segment Process Successfully" output point 68, the operator at all times knows the last segment that was successfully processed. At the "Reason" output point 70, the operator receives the same information that previously appeared at Error Explanation output 52 of the Test Facility Screen shown in FIG. 3. This provides as the reason why the translation error occurred. Finally, the operator is prompted to "Correct Identified Errors And Hit PF3 to retranslate the corrected segment (e.g., segment 3 in this example).

The bottom part of the operator screen appearing at FIG. 4 shows the portion of the original EDI document file that the segment file contains. With this small segment, the operator may identify the error that the Test Facility Search lists and correct it. After which, the operator may depress the PF3 key of his keyboard to retranslate the segment and thereby verify that the error has been corrected.

In using the EDI Test Facility of the preferred embodiment, at each segment that the test facility identifies, the Test Facility output of FIG. 3 and the Edit Screen output of FIG. 4 communicate to the operator the existence of an error and the error location, as well as provide to the operator the ability to correct the error interactively. Once the error is corrected, the operator retranslates the corrected segment and the EDI Test Facility of the preferred embodiment continues to translate the EDI document file (e.g., DAMMKMM.FB.DATA of FIG. 3) until the translation is complete.

The Translation Incomplete signal 53 of FIG. 3 indicates that the translation of input file DAMMKMM.F-BDATA is not completed because of the error identified by segment number output 50 and error explanation output 52 (i.e., "ERR14, Badsql Return Code - 924 at segment 000003).

FIG. 5 shows a flow chart of the preferred EDI Test Facility embodiment to provide to the operator the screens appearing in FIG. 1–4. First the operator fills in the Transfer Configuration Screen to establish the configuration files of step 74. Next, the operator fills in the test facility panel for input, work, segment, and log files at step 76. Also at step 76, using the Test Facility screens of FIGS. 2 and 3 the EDI Test Facility of the preferred embodiment displays any error messages arising from the EDI translation. Next, the EDI Test Facility of the preferred embodiment at step 78 permits the operator to fill in the translator configuration of FIG. 1. The preferred embodiment then translates the data at step 80 and queries whether an error has been found in the EDI file translation at step 82.

If no error occurs, the preferred embodiment sends a translation successful message to the Test Facility screen at step 84 and then permits the operator to change the input work segment and log files and continue at steps 76 and the Translator Configuration of step 78. On the other hand, if an error is found at step 82, EDI test facility of the preferred embodiment at step 86, issues the information to the Test Facility Screen (see FIG. 3) and provides the operator with the ability to use the Edit Facility of the preferred embodiment. At step 86, the preferred embodiment also logs the problem in the previously designated log file (see FIG. 3).

Under the edit facility, the EDI Test Facility permits the operator to make changes to the data at step 88 and

query whether any changes were made at step 90. If no changes were made, control returns to step 76 where the operator is to fill in the input, work, segment, and log file as well as to display the error message arising from the failed translation. On the other hand, if changes are made then the program control returns to step 80 to translate data and determine whether any further error exists.

Appendix A provides a complete listing of the source code for the EDI Test Facility of the preferred embodiment.

Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions and alterations can be made herein without departing from the spirit and scope the invention as defined in the appended claims.

APPENDIX A

```
        TITLE 'EDITSBED - EDI TEST FACILITY'              00010000
        SPACE 2                                           00020000
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX       00030000
X-----------------------------------------------------X   00040000
X            -----      N O T I C E      ----     X        00050000
X        THIS EDI TEST FACILITY SOURCE MODULE     X        00060000
X                   IS TI CLASSIFIED:             X        00070000
X TEXAS INSTRUMENTS INTERNAL DATA X                        00080000
X   PROPERTY OF TEXAS INSTRUMENTS   X                      00090000
X                   O N L Y                       X        00100000
X              TEXAS INSTRUMENTS, INC.            X        00110000
X   13500 N. CENTRAL EXPRESSWAY, DALLAS, TEXAS  75265  X   00120000
X-----------------------------------------------------X   00130000
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX       00140000
        SPACE 2                                           00150000
        REGS                                              00160000
        SPACE 2                                           00170000
        IHASDWA                                           00180000
        SPACE 2                                           00190000
        EDIDEQU                                           00200000
        SPACE 2                                           00210000
        CVT   DSECT=YES                                   00220000
        TICVT                                             00230000
        SPACE 2                                           00240000
        IFGACB                                            00250000
        SPACE 2                                           00260000
        IFGRPL                                            00270000
        SPACE 2                                           00280000
        IEFZB4D0                                          00290000
        SPACE 2                                           00300000
        IEFZB4D2                                          00310000
        SPACE 2                                           00320000
        DCBD  DSORG=BS,DEVD=DA                            00330000
        SPACE 2                                           00340000
DCBPARMS DSECT                                            00350000
DCBXDDNM DS    CL8                                        00360000
DCBXRFMT DS    X                                          00370000
DCBXLREC DS    XL2                                        00380000
DCBXBLKS DS    XL2                                        00390000
DCBXPRIM DS    XL3                                        00400000
DCBXNEW  EQU   DCBPARMS,X-DCBPARMS,C'X'                   00410000
TRANREC  DSECT                                            00420000
TRANSTND DS    CL8                                        00430000
TRANRLSE DS    CL5                                        00440000
TRANVERS DS    CL12                                       00450000
TRANAGCY DS    CL2                                        00460000
TRANSDLM DS    CL1                                        00470000
TRANREAS DS    CL71                                       00480000
TRANBIF  DS    CL10                                       00490000
TRANWELM DS    CL8                                        00500000
TRANLAST DS    CL6                                        00510000
TRANTAG  DS    CL20                                       00520000
TRANVAL  DS    CL40                                       00530000
TRANSTOR EQU   TRANTAG,X-TRANTAG,C'C'                     00540000
EDITSBED CSECT                                            00550000
        USING EDITSBED,R10          NOTE BASE ADDRESSIBILITY   00560000
        STM   R14,R12,12(R13)       SAVE ENTRY REGS            00570000
        LR    R10,R15               COPY ENTRY ADDRESS         00580000
        LA    R11,2048(,R10)        INITIALIZE 2ND BASE REG    00590000
        LA    R11,2048(,R11)                                   00600000

        USING EDITSBED+4096,R11                                00610000
        LA    R1,SAVEAREA           POINT TO SAVE AREA         00620000
        ST    R13,4(,R1)            LINK TO CALLERS SAVE AREA  00630000
        ST    R1,8(,R13)            LINK TO OUR SAVE AREA      00640000
        LR    R13,R1                ESTABLISH SAVE AREA        00650000
        SPACE 1                                            00660000
X-------------------------------------------------------X 00670000
X       SET UP AN ESTAE EXIT                              00680000
X-------------------------------------------------------X 00690000
        SPACE 1                                            00700000
        ESTAE TBABEND,             ESTABLISH AN ESTAE     +00710000
              PARAM=(R10),                                +00720000
              XCTL=YES                                     00730000
        SPACE 1                                            00740000
X-------------------------------------------------------X 00750000
X       INITIALIZE                                        00760000
```

```
*-----------------------------------------------------------------* 00770000
*                                                                    00780000
       SPACE 1                                                       00790000
       OI    FLAG1,INIT        SET INITIALIZING                     00800000
       USING IHADCB,R12                                              00810000
       SPACE 1                                                       00820000
       LOAD  EP=ISPLINK        LOAD LINK PROGRAM                     00830000
       SPACE 1                                                       00840000
       ST    R0,ISPLADDR       SAVE ADDRESS                         00850000
       SPACE 1                                                       00860000
*-----------------------------------------------------------------* 00870000
*      DEFINE PROCESSSING OPTIONS FOR DIALOGUE SERVICE             * 00880000
*-----------------------------------------------------------------* 00890000
       SPACE 1                                                       00900000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       00910000
       CALL  (15),(CONTROL,ERRORS,RETURN),VL                         00920000
       SPACE 1                                                       00930000
*-----------------------------------------------------------------* 00940000
*      DEFINE MISC. VARIABLE NAMES TO ISPF                         * 00950000
*-----------------------------------------------------------------* 00960000
       SPACE 1                                                       00970000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       00980000
       CALL  (15),(VDEFINE,ZUSERLIT,ZUSER,CHAR,LENGTH8),VL           00990000
       SPACE 1                                                       01000000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01010000
       CALL  (15),(VDEFINE,DSNLIT,DSN,CHAR,LENGTH44),VL              01020000
       SPACE 1                                                       01030000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01040000
       CALL  (15),(VDEFINE,DSNWLIT,DSNW,CHAR,LENGTH44),VL            01050000
       SPACE 1                                                       01060000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01070000
       CALL  (15),(VDEFINE,DSNALITT,DSNAT,CHAR,LENGTH44),VL          01080000
       SPACE 1                                                       01090000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01100000
       CALL  (15),(VDEFINE,DSNALITP,DSNAP,CHAR,LENGTH44),VL          01110000
       SPACE 1                                                       01120000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01130000
       CALL  (15),(VDEFINE,DSNCLITT,DSNCT,CHAR,LENGTH44),VL          01140000
       SPACE 1                                                       01150000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01160000
       CALL  (15),(VDEFINE,DSNCLITP,DSNCP,CHAR,LENGTH44),VL          01170000
       SPACE 1                                                       01180000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01190000
       CALL  (15),(VDEFINE,DSNILITT,DSNIT,CHAR,LENGTH44),VL          01200000
       SPACE 1                                                       01210000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01220000
       CALL  (15),(VDEFINE,DSNILITP,DSNIP,CHAR,LENGTH44),VL          01230000
       SPACE 1                                                       01240000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01250000
       CALL  (15),(VDEFINE,DSNXLITT,DSNXT,CHAR,LENGTH44),VL          01260000
       SPACE 1                                                       01270000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01280000
       CALL  (15),(VDEFINE,DSNXLITP,DSNXP,CHAR,LENGTH44),VL          01290000
       SPACE 1                                                       01300000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01310000
       CALL  (15),(VDEFINE,DSNOLITT,DSNOT,CHAR,LENGTH44),VL          01320000
       SPACE 1                                                       01330000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01340000
       CALL  (15),(VDEFINE,DSNOLITP,DSNOP,CHAR,LENGTH44),VL          01350000
       SPACE 1                                                       01360000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01370000
       CALL  (15),(VDEFINE,DSNSLIT,DSNS,CHAR,LENGTH44),VL            01380000
       SPACE 1                                                       01390000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01400000
       CALL  (15),(VDEFINE,DSNLLIT,DSNL,CHAR,LENGTH44),VL            01410000
       SPACE 1                                                       01420000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01430000
       CALL  (15),(VDEFINE,STDLIT,STD,CHAR,LENGTH8),VL               01440000
       SPACE 1                                                       01450000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01460000
       CALL  (15),(VDEFINE,RLSLIT,RLS,CHAR,LENGTH5),VL               01470000
       SPACE 1                                                       01480000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01490000
       CALL  (15),(VDEFINE,VERSLIT,VERS,CHAR,LENGTH2),VL             01500000
       SPACE 1                                                       01510000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01520000
       CALL  (15),(VDEFINE,AGCYLIT,AGCY,CHAR,LENGTH2),VL             01530000
       SPACE 1                                                       01540000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01550000
       CALL  (15),(VDEFINE,REASLIT,REAS,CHAR,LENGTH71),VL            01560000
       SPACE 1                                                       01570000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01580000
       CALL  (15),(VDEFINE,NUMBLIT,NUMB,CHAR,LENGTH6),VL             01590000
       SPACE 1                                                       01600000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01610000
       CALL  (15),(VDEFINE,LASTLIT,LASTSEG,CHAR,LENGTH6),VL          01620000
       SPACE 1                                                       01630000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01640000
       CALL  (15),(VDEFINE,RTC,RTNCODE,HEX,LENGTH4),VL               01650000
       SPACE 1                                                       01660000
       L     R15,ISPLADDR      LOAD ADDRESS OF ISPLINK ROUTINE       01670000
       CALL  (15),(VDEFINE,REEZ,REEZCODE,HEX,LENGTH2),VL
```

```
          SPACE 1                                                         01680000
          L      R15,ISPLADDR         LOAD ADDRESS OF ISPLINK ROUTINE     01690000
          CALL   (15),(VDEFINE,DD,DDERR,CHAR,LENGTH8),VL                  01700000
          SPACE 1                                                         01710000
*-----------------------------------------------------------------*      01720000
*         CREATE TABLE NEEDED FOR FIRST PANEL                      *      01730000
*-----------------------------------------------------------------*      01740000
          SPACE 1                                                         01750000
          L      R15,ISPLADDR         LOAD ADDRESS OF ISPLINK ROUTINE     01760000
          CALL   (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL             01770000
          SPACE 1                                                         01780000
          LTR    R15,R15              ERROR?                              01790000
          BNZ    ERROR01              YES-                                01800000
          SPACE 1                                                         01810000
*-----------------------------------------------------------------*      01820000
*         RETRIEVE TSO USERID                                      *      01830000
*-----------------------------------------------------------------*      01840000
          SPACE 1                                                         01850000
          L      R15,ISPLADDR         LOAD ADDRESS OF ISPLINK ROUTINE     01860000
          CALL   (15),(VGET,USERLIST,SHARED),VL                          01870000
          SPACE 1                                                         01880000
*-----------------------------------------------------------------*      01890000
*         ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR          *      01900000
*-----------------------------------------------------------------*      01910000
          SPACE 1                                                         01920000
          MVI    DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE            01930000
          LA     R2,DSLISTS           POINT TO DATASET LIST               01940000
          USING  DCBPARMS,R2          GET ADDRESSABILITY                  01950000
DSLISTSX  DS     0H                                                       01960000
          LA     R1,DSALLOCS          POINT TO TEXT UNIT LIST             01970000
          ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     01980000
          CLI    0(R2),C' '           END OF LIST?                        01990000
          BE     ALLOCOLD             YES-                                02000000
          MVC    TXTDD+S99TUPAR-S99TUNIT(8),DCBXDDNM SET DDNAME           02010000
          MVC    TXTDSN+S99TUPAR-S99TUNIT(44),=CL44' ' BLANK OUT DSN      02020000
          MVC    TXTDSN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID  02030000
          LA     R15,TXTDSN+S99TUPAR-S99TUNIT POINT TO WORK AREA          02040000
          LA     R14,44               SET COUNT                           02050000
FINDBLNX  DS     0H                                                       02060000
          CLI    0(R15),C' '          FIND FIRST BLANK                    02070000
          BE     FOUNDBLX             FOUND IT-                           02080000
          LA     R15,1(R15)           POINT TO NEXT BYTE                  02090000
          BCT    R14,FINDBLNX                                             02100000
FOUNDBLX  DS     0H                                                       02110000
          MVC    0(4,R15),=CL4'.TF.' SET MIDDLE NODE                      02120000
          LA     R15,4(R15)           INCREMENT POINTER                   02130000
          MVC    0(8,R15),DCBXDDNM    SET REST OF DSN                     02140000
          BAL    R9,DYNA              GO ALLOC FILE                       02150000
          B      CKERRORX             ERROR ON ALLOCATION                 02160000
NEXTLISS  DS     0H                                                       02170000
          LA     R2,L'DCBXNEW(R2)     POINT TO NEXT ENTRY                 02180000
          B      DSLISTSX             CONTINUE                            02190000
CKERRORX  DS     0H                                                       02200000
          CLC    =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?           02210000
          BNE    ERROR02              NO-                                 02220000
          LA     R1,DSALLOCN          POINT TO TEXT UNIT LIST             02230000
          ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     02240000
          MVC    TXTRECFM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT          02250000
          MVC    TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC          02260000
          MVC    TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS          02270000
          MVC    TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM          02280000
          BAL    R9,DYNA              GO ALLOC FILE                       02290000
          B      ERROR02              ERROR ON ALLOCATION                 02300000
          B      NEXTLISS             CONTINUE                            02310000
          DROP   R2                                                       02320000
          SPACE 1                                                         02330000
*-----------------------------------------------------------------*      02340000
*         ALLOCATE DISP=OLD DATASETS NEEDED BY TRANSLATOR          *      02350000
*-----------------------------------------------------------------*      02360000
          SPACE 1                                                         02370000
ALLOCOLD  DS     0H                                                       02380000
          MVI    DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE            02390000
          LA     R2,DSLISTO           POINT TO DATASET LIST               02400000
          USING  DCBPARMS,R2          GET ADDRESSABILITY                  02410000
DSLISTOX  DS     0H                                                       02420000
          LA     R1,DSALLOCO          POINT TO TEXT UNIT LIST             02430000
          ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     02440000
          CLI    0(R2),C' '           END OF LIST?                        02450000
          BE     ALLOCSO              YES-                                02460000
          MVC    TXTDD+S99TUPAR-S99TUNIT(8),DCBXDDNM SET DDNAME           02470000
          MVC    TXTDSN+S99TUPAR-S99TUNIT(44),=CL44' ' BLANK OUT DSN      02480000
          MVC    TXTDSN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID  02490000
          LA     R15,TXTDSN+S99TUPAR-S99TUNIT POINT TO WORK AREA          02500000
          LA     R14,44               SET COUNT                           02510000
FINDBLNK  DS     0H                                                       02520000
          CLI    0(R15),C' '          FIND FIRST BLANK                    02530000
          BE     FOUNDBLK             FOUND IT-                           02540000
          LA     R15,1(R15)           POINT TO NEXT BYTE                  02550000
          BCT    R14,FINDBLNK                                             02560000
FOUNDBLK  DS     0H                                                       02570000
          MVC    0(4,R15),=CL4'.TF.' SET MIDDLE NODE                      02580000
```

```
        LA      R15,4(R15)          INCREMENT POINTER               02590000
        MVC     0(8,R15),DCBXDDNM   SET REST OF DSN                 02600000
        BAL     R9,DYNA             GO ALLOC FILE                   02610000
        B       CKERROR             ERROR ON ALLOCATION             02620000
NEXTLISO DS     0H                                                  02630000
        LA      R2,L'DCBXNEW(R2)    POINT TO NEXT ENTRY             02640000
        B       DSLISTOX            CONTINUE                        02650000
CKERROR  DS     0H                                                  02660000
        CLC     =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?       02670000
        BNE     ERROR02             NO-                             02680000
        LA      R1,DSALLOCN         POINT TO TEXT UNIT LIST         02690000
        ST      R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 02700000
        MVC     TXTRECFM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT     02710000
        MVC     TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC     02720000
        MVC     TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS     02730000
        MVC     TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM     02740000
        BAL     R9,DYNA             GO ALLOC FILE                   02750000
        B       ERROR02             ERROR ON ALLOCATION             02760000
        B       NEXTLISO            CONTINUE                        02770000
        DROP    R2                                                  02780000
        SPACE   1                                                   02790000
*-----------------------------------------------------------------* 02800000
*           ALLOCATE SYSOUT NEEDED BY TRANSLATOR                   * 02810000
*-----------------------------------------------------------------* 02820000
                                                                    02830000
        SPACE   1                                                   02840000
ALLOCSO  DS     0H                                                  02850000
        LA      R1,SOALLOC          POINT TO TEXT UNIT LIST         02850000
        ST      R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 02860000
        MVI     DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE       02870000
        LA      R2,SOLIST           POINT TO SYSOUT LIST            02880000
SOLISTX  DS     0H                                                  02890000
        CLI     0(R2),C' '          END OF LIST?                    02900000
        BE      GETVARS             YES-                            02910000
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME       02920000
        BAL     R9,DYNA             GO ALLOC DATABASE               02930000
        B       ERROR02             ERROR ON ALLOCATION             02940000
        LA      R2,8(R2)            POINT TO NEXT DDNAME            02950000
        B       SOLISTX             CONTINUE                        02960000
        SPACE   1                                                   02970000
*-----------------------------------------------------------------* 02980000
*           RETRIEVE PANEL VARIABLES FOR DISPLAY                   * 02990000
*-----------------------------------------------------------------* 03000000
                                                                    03010000
        SPACE   1                                                   03020000
GETVARS  DS     0H                                                  03030000
        L       R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE 03040000
        CALL    (15),(VGET,SAVLIST,PROFILE),VL                      03040000
        SPACE   1                                                   03050000
*-----------------------------------------------------------------* 03060000
*           DISPLAY CONFIGURATION PANEL TO GET FILE NAMES          * 03070000
*-----------------------------------------------------------------* 03080000
                                                                    03090000
        SPACE   1                                                   03100000
CONFIG   DS     0H                                                  03100000
        LA      R1,DSUNCONC         POINT TO TEXT UNIT LIST         03110000
        ST      R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 03120000
        MVI     DYNRB+S99VERB-S99RB,S99VRBDC SET TO UNALLOCATE     03130000
        LA      R2,DSLIST           POINT TO DS LIST               03140000
UNCONC   DS     0H                                                  03150000
        CLC     =C'VSAM',0(R2)      END OF LIST?                    03160000
        BE      UNALCONF            YES-                            03170000
        MVC     TXTDDU+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME      03180000
        BAL     R9,DYNA             GO UNCONCAT FILES               03190000
        B       *+4                 ERROR ON UNCONCAT               03200000
        LA      R2,104(R2)          POINT TO NEXT DDNAME           03210000
        B       UNCONC              CONTINUE                        03220000
UNALCONF DS     0H                                                  03230000
        LA      R1,DSUNALOC         POINT TO TEXT UNIT LIST         03240000
        ST      R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 03250000
        MVI     DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE     03260000
        LA      R2,DSLIST           POINT TO DS LIST               03270000
UNALDSX  DS     0H                                                  03280000
        CLI     0(R2),C' '          END OF LIST?                    03290000
        BE      DISPCONF            YES-                            03300000
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME       03310000
        BAL     R9,DYNA             GO UNALLOCATE FILE              03320000
        B       *+4                 ERROR ON UNALLOCATION          03330000
        LA      R2,52(R2)           POINT TO NEXT DDNAME           03340000
        B       UNALDSX             CONTINUE                        03350000
        SPACE   1                                                   03360000
DISPCONF DS     0H                                                  03370000
        L       R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE 03380000
        CALL    (15),(DISPLAY,PANEL3),VL DISPLAY                   03390000
        SPACE   1                                                   03400000
        CH      R15,=H'8'           END/RETURN ENTERED?            03410000
        BE      ENDSESS             YES-                            03420000
        NI      FLAG1,FF-INIT       RESET INIT FLAG                03430000
        SPACE   1                                                   03440000
*-----------------------------------------------------------------* 03450000
*           ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR        * 03460000
*-----------------------------------------------------------------* 03470000
```

```
         SPACE 1                                             03480000
         LA     R1,DSALLOCS        POINT TO TEXT UNIT LIST   03490000
         ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 03500000
         MVI    DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE 03510000
         LA     R2,DSLIST          POINT TO DATASET LIST     03520000
DSLISTX  DS     0H                                           03530000
         CLI    0(R2),C' '         END OF LIST?              03540000
         BE     CONCLIST           YES-                      03550000
         MVC    TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME 03560000
         MVC    TXTDSN+S99TUPAR-S99TUNIT(44),8(R2) COPY DS NAME 03570000
         BAL    R9,DYNA            GO ALLOC FILE             03580000
         B      ERROR02            ERROR ON ALLOCATION       03590000
         LA     R2,52(R2)          POINT TO NEXT DATASET NAME 03600000
         B      DSLISTX            CONTINUE                  03610000
CONCLIST DS     0H                                           03620000
         LA     R1,DSCONCLS        POINT TO TEXT UNIT LIST   03630000
         ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 03640000
         MVI    DYNRB+S99VERB-S99RB,S99VRBCC SET TO ALLOCATE 03650000
         LA     R2,DSLIST          POINT TO DATASET LIST     03660000
CONCNEXT DS     0H                                           03670000
         CLC    =C'VSAM',0(R2)     END OF LIST?              03680000
         BE     DISPPRIM           YES-                      03690000
         MVC    TXTCONC+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME 03700000
         LA     R2,52(R2)          POINT TO NEXT DDNAME      03710000
         MVC    TXTCONCX,0(R2)     COPY SECOND DDNAME        03720000
         BAL    R9,DYNA            GO ALLOC FILE             03730000
         B      ERROR02            ERROR ON ALLOCATION       03740000
         LA     R2,52(R2)          POINT TO NEXT DDNAME      03750000
         B      CONCNEXT           CONTINUE                  03760000
         SPACE 1                                             03770000
*-----------------------------------------------------------* 03780000
*        DISPLAY PRIMARY PANEL                              * 03790000
*-----------------------------------------------------------* 03800000
         SPACE 1                                             03810000
DISPPRIM DS     0H                                           03820000
         LA     R12,LOGDCB         POINT TO LOG DCB          03830000
         TM     DCBOFLGS,DCBOFOPN  IS IT OPEN?               03840000
         BNO    LOGCLOSE           NO-                       03850000
         SPACE 1                                             03860000
         CLOSE  ((R12))            CLOSE IT                  03870000
         SPACE 1                                             03880000
         LR     R1,R12             COPY DCB ADDRESS          03890000
         SPACE 1                                             03900000
         FREEPOOL (1)              FREE QSAM BUFFERS         03910000
LOGCLOSE DS     0H                                           03920000
         LA     R1,DSUNALOC        POINT TO TEXT UNIT LIST   03930000
         ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 03940000
         MVI    DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE 03950000
         MVC    TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE'   03960000
         BAL    R9,DYNA            GO UNALLOC                03970000
         B      *+4                ERROR ON UNALLOCATION     03980000
         MVC    TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT'      03990000
         BAL    R9,DYNA            GO UNALLOC                04000000
         B      *+4                ERROR ON UNALLOCATION     04010000
         MVC    TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE'   04020000
         BAL    R9,DYNA            GO UNALLOC                04030000
         B      *+4                ERROR ON UNALLOCATION     04040000
         SPACE 1                                             04050000
         MVC    TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG'        04060000
         BAL    R9,DYNA            GO UNALLOC                04070000
         B      *+4                ERROR ON UNALLOCATION     04080000
         SPACE 1                                             04090000
         L      R15,ISPLADDR       LOAD ADDRESS OF ISPLINK ROUTINE 04100000
         CALL   (15),(TBTOP,VARTABLE),VL DISPLAY            04110000
         SPACE 1                                             04120000
         L      R15,ISPLADDR       LOAD ADDRESS OF ISPLINK ROUTINE 04130000
         CALL   (15),(TBDISPL,VARTABLE,PRIMARY),VL DISPLAY  04140000
         SPACE 1                                             04150000
         CH     R15,=H'8'          END/RETURN ENTERED?       04160000
         BE     CONFIG             YES-                      04170000
         SPACE 2                                             04180000
*-----------------------------------------------------------* 04190000
*        DELETE AND RECREATE TABLE OF ERRORS               * 04200000
*-----------------------------------------------------------* 04210000
         SPACE 2                                             04220000
         L      R15,ISPLADDR       LOAD ADDRESS OF ISPLINK ROUTINE 04230000
         CALL   (15),(TBCLOSE,VARTABLE),VL                  04240000
         SPACE 1                                             04250000
         L      R15,ISPLADDR       LOAD ADDRESS OF ISPLINK ROUTINE 04260000
         CALL   (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL 04270000
         SPACE 1                                             04280000
         LTR    R15,R15            ERROR?                    04290000
         BNZ    ERROR01            YES-                      04300000
         SPACE 2                                             04310000
*-----------------------------------------------------------* 04320000
*        ALLOCATE INPUT FILE SPECIFIED BY USER             * 04330000
*-----------------------------------------------------------* 04340000
         SPACE 2                                             04350000
         LA     R1,DSALLOCS        POINT TO TEXT UNIT LIST   04360000
         ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 04370000
         MVI    DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE 04380000
```

```
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE' SET DDNAME      04390000
        MVC     TXTDSN+S99TUPAR-S99TUNIT(44),DSN    COPY DS NAME          04400000
        BAL     R9,DYNA              GO ALLOC FILE                        04410000
        B       ERROR02              ERROR ON ALLOCATION                  04420000
        SPACE   1                                                         04430000
        LA      R1,DSALLOC0          POINT TO TEXT UNIT LIST              04440000
        ST      R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK      04450000
        MVI     DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE              04460000
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG' SET DDNAME           04470000
        MVC     TXTDSN+S99TUPAR-S99TUNIT(44),DSNL   COPY DS NAME          04480000
        BAL     R9,DYNA              GO ALLOC FILE                        04490000
        B       ERROR02              ERROR ON ALLOCATION                  04500000
        LA      R1,DSALLOC0          POINT TO TEXT UNIT LIST              04510000
        ST      R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK      04520000
        MVI     DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE              04530000
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT' SET DDNAME         04540000
        MVC     TXTDSN+S99TUPAR-S99TUNIT(44),DSNH   COPY DS NAME          04550000
        BAL     R9,DYNA              GO ALLOC FILE                        04560000
        B       ERROR02              ERROR ON ALLOCATION                  04570000
        LA      R12,INPDCB           POINT TO DCB                         04580000
        MVC     DDERR,DCBDDNAM       SET DDNAME IN ERROR MSG              04590000
        SPACE   1                                                         04600000
        OPEN    ((R12),(INPUT))      OPEN FILE                            04610000
        SPACE   1                                                         04620000
        TM      DCBOFLGS,DCBOFOPN    WAS OPEN SUCCESSFUL?                 04630000
        BNO     ERROR06              NO-                                  04640000
        TM      DCBRECFM,DCBRECF+DCBRECBR FB RECORDS?                     04650000
        BNO     ERROR10              ERROR                                04660000
        LH      R0,DCBLRECL          GET LRECL                            04670000
        CH      R0,=H'80'            LRECL = 80?                          04680000
        BNE     ERROR10              NO ERROR                             04690000
        SPACE   1                                                         04700000
        CLOSE   ((R12))              CLOSE FILE                           04710000
        SPACE   1                                                         04720000
        MVI     DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             04730000
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE' SET DDNAME      04740000
        MVC     TXTDSN+S99TUPAR-S99TUNIT(44),DSNS   COPY DS NAME          04750000
        BAL     R9,DYNA              GO ALLOC FILE                        04760000
        B       ERROR02              ERROR ON ALLOCATION                  04770000
        LA      R12,OUTDCB           POINT TO DCB                         04780000
        MVC     DDERR,DCBDDNAM       SET DDNAME IN ERROR MSG              04790000
        SPACE   1                                                         04800000
        OPEN    ((R12),(INPUT))      OPEN FILE                            04810000
        SPACE   1                                                         04820000
        TM      DCBOFLGS,DCBOFOPN    WAS OPEN SUCCESSFUL?                 04830000
        BNO     ERROR06              NO-                                  04840000
        TM      DCBRECFM,DCBRECV+DCBRECBR VB RECORDS?                     04850000
        BNO     ERROR11              NO- ERROR                            04860000
        LH      R0,DCBLRECL          GET LRECL                            04870000
        CH      R0,=H'259'           LRECL = 259?                         04880000
        BNE     ERROR11              NO ERROR                             04890000
        SPACE   1                                                         04900000
        CLOSE   ((R12))              CLOSE FILE                           04910000
        SPACE   1                                                         04920000
        MVC     IDCB,=CL8'USERFILE' SET INPUT DDNAME FOR REBLOCK         04930000
        MVC     ODCB,=CL8'INPUT' SET OUTPUT DDNAME FOR REBLOCK            04940000
        LA      R12,LOGDCB           POINT TO STORE DCB                   04950000
        MVC     DDERR,DCBDDNAM       SET DDNAME IN ERROR MSG              04960000
        SPACE   1                                                         04970000
        OPEN    ((R12),(OUTPUT))     OPEN FILE                            04980000
        SPACE   1                                                         04990000
        TM      DCBOFLGS,DCBOFOPN    WAS OPEN SUCCESSFUL?                 05000000
        BNO     ERROR06              NO-                                  05010000
TRANLOOP DS     0H                                                        05020000
        SPACE   1                                                         05030000
        CALL    REBLK,(DCBNAMES),VL GO REBLOCK FILE FOR XLATOR            05040000
        SPACE   1                                                         05050000
        LTR     R15,R15              REBLOCK OK?                          05060000
        BNZ     ERROR04              NO-                                  05070000
        SPACE   1                                                         05080000
        L       R15,ISPLADDR         LOAD ADDRESS OF ISPLINK ROUTINE      05090000
        SPACE   1                                                         05100000
        CALL    (15),(SELECT,LENGTH11,SELCMD),VL                         05110000
        SPACE   1                                                         05120000
        LTR     R15,R15              BYPASS CHECK                         05130000
        BNZ     BYPASST              YES-                                 05140000
        SPACE   1                                                         05150000
*-----------------------------------------------------------------*      05160000
*       GET INFORMATION ABOUT PROBLEM                              *      05170000
*-----------------------------------------------------------------*      05180000
        SPACE   1                                                         05190000
CHECKERR DS     0H                                                        05200000
        LA      R12,ERRDCB           POINT TO ERROR DCB                   05210000
        MVC     DDERR,DCBDDNAM       SET DDNAME IN ERROR MSG              05220000
        LA      R0,BYPASST           SET EOD ADDRESS                      05230000
        STCM    R0,B'0111',DCBEODA   IN DCB                               05240000
        SPACE   1                                                         05250000
        OPEN    ((R12),(INPUT))      OPEN FILE                            05260000
        SPACE   1                                                         05270000
        TM      DCBOFLGS,DCBOFOPN    WAS OPEN SUCCESSFUL?                 05280000
        BNO     ERROR06              NO-                                  05290000
        L       R0,BUFFER            GET BUFFER ADDRESS                   05300000
```

```
         SPACE 1                                              05310000
         GET   ERRDCB              RETRIEVE ERROR RECORD       05320000
         SPACE 1                                              05330000
         CLOSE ((R12))             CLOSE FILE                  05340000
         SPACE 1                                              05350000
         LR    R1,R12              COPY DCB ADDRESS            05360000
         SPACE 1                                              05370000
         FREEPOOL (1)              FREE QSAM BUFFERS           05380000
         SPACE 1                                              05390000
         L     R6,BUFFER           GET ERROR BUFFER ADDRESS    05400000
         AH    R6,=H'4'            POINT PAST RDW              05410000
         USING TRANREC,R6          GET ADDRESSABILITY          05420000
         MVC   STD,TRANSTND        SET STANDARD                05430000
         MVC   RLS,TRANRLSE        SET RELEASE                 05440000
         MVC   VERS,TRANVERS       SET VERSION                 05450000
         MVC   AGCY,TRANAGCY       SET AGENCY                  05460000
         MVC   REAS,TRANREAS       SET REASON                  05470000
         MVC   LASTSEG,TRANLAST    SET LAST SEGMENT PROCESSED  05480000
         PACK  DBLWORD,TRANLAST    PACK LAST SEGMENT FIELD     05490000
         AP    DBLWORD,=P'1'       ADD ONE TO GET PROBLEM SGMT 05500000
         UNPK  NUMB,DBLWORD        GET IT BACK TO EBCDIC       05510000
         OI    NUMB+5,X'F0'        SET ZONE                    05520000
         MVC   SEP,TRANSDLM        SET SEGMENT DELIMITER       05530000
         SPACE 1                                              05540000
*--------------------------------------------------------*    05550000
*          UPDATE LOG                                     *    05560000
*--------------------------------------------------------*    05570000
         SPACE 1                                              05580000
         L     R2,BUFFER           GET BUFFER ADDRESS          05590000
         MVC   0(80,R2),=CL80' '   BLANK OUT BUFFER            05600000
         MVC   0(L'REAS,R2),REAS   COPY INTO BUFFER            05610000
         SPACE 1                                              05620000
         PUT   LOGDCB,(R2)         WRITE RECORD                05630000
         SPACE 1                                              05640000
*--------------------------------------------------------*    05650000
*          ADD REASON TO TABLE                            *    05660000
*--------------------------------------------------------*    05670000
         SPACE 1                                              05680000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE 05690000
         CALL  (15),(TBADD,VARTABLE),VL                       05700000
         SPACE 1                                              05710000
         LTR   R15,R15             ERROR?                      05720000
         BNZ   ERROR07             YES-                        05730000
         SPACE 1                                              05740000
*--------------------------------------------------------*    05750000
*          BUILD STORE FILE                               *    05760000
*--------------------------------------------------------*    05770000
         SPACE 1                                              05780000
         LA    R12,STOREDCB        POINT TO STORE DCB          05790000
         MVC   DDERR,DCBDDNAM      SET DDNAME IN ERROR MSG     05800000
         SPACE 1                                              05810000
         OPEN  ((R12),(OUTPUT))    OPEN FILE                   05820000
         SPACE 1                                              05830000
         TM    DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?        05840000
         BNO   ERROR06             NO-                         05850000
         L     R2,BUFFER           GET BUFFER ADDRESS          05860000
         MVC   0(80,R2),=CL80' '   BLANK OUT BUFFER            05870000
         LA    R6,TRANSTOR         POINT TO TAG                05880000
         USING TRANSTOR,R6         GET ADDRESSABILITY          05890000
STORCONT DS    0H                                              05900000
         CLC   TRANTAG(L'BEDZERO),BEDZERO END OF VALUES?       05910000
         BE    STORQUIT            YES-                        05920000
         MVC   0(L'TRANSTOR,R2),TRANSTOR COPY INTO BUFFER      05930000
         SPACE 1                                              05940000
         PUT   STOREDCB,(R2)       WRITE RECORD                05950000
         SPACE 1                                              05960000
         LA    R6,L'TRANSTOR(R6)   INCREMENT POINTER           05970000
         B     STORCONT            CONTINUE                    05980000
STORQUIT DS    0H                                              05990000
         CLOSE ((R12))             CLOSE IT                    06000000
         SPACE 1                                              06010000
         LR    R1,R12              COPY DCB ADDRESS            06020000
         SPACE 1                                              06030000
         FREEPOOL (1)              FREE QSAM BUFFERS           06040000
         SPACE 1                                              06050000
*--------------------------------------------------------*    06060000
*          OPEN INPUT FILE                                *    06070000
*--------------------------------------------------------*    06080000
         SPACE 1                                              06090000
         LA    R12,INPDCB          POINT TO INPUT DCB          06100000
         MVC   DDERR,DCBDDNAM      SET DDNAME IN ERROR MSG     06110000
         SPACE 1                                              06120000
         OPEN  ((R12),(INPUT))     OPEN FILE                   06130000
         SPACE 1                                              06140000
         TM    DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?        06150000
         BNO   ERROR06             NO-                         06160000
         SPACE 1                                              06170000
*--------------------------------------------------------*    06180000
*          OPEN TEMPORARY FILE FOR OUTPUT                 *    06190000
*--------------------------------------------------------*    06200000
```

```
        SPACE 1                                          06210000
        LA     R12,OUTDCB     POINT TO OUTPUT DCB        06220000
        MVC    DDERR,DCBDDNAM   SET DDNAME IN ERROR MSG  06230000
        SPACE 1                                          06240000
        OPEN   ((R12),(OUTPUT))   OPEN FILE              06250000
        SPACE 1                                          06260000
        TM     DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?  06270000
        BNO    ERROR06        NO-                        06280000
        NI     BEDFLAG1,FF-INEOF-PERM1ERR RESET FLAGS    06290000
NEXTSGMT DS    OH                                        06300000
        BAL    R9,FINDSGMT    YES- GO FIND SEGMENT       06310000
        B      ERROR08        ERROR-                     06320000
        B      CLOSEOUT       EOF-                       06330000
        L      R0,BUFFRDW     POINT TO SEGMENT           06340000
        SPACE 1                                          06350000
        PUT    OUTCB          WRITE IT                   06360000
        SPACE 1                                          06370000
        B      NEXTSGMT       NORMAL                     06380000
CLOSEOUT DS    OH                                        06390000
        LA     R12,OUTDCB     POINT TO OUTPUT DCB        06400000
        SPACE 1                                          06410000
        CLOSE  ((R12))        CLOSE IT                   06420000
        SPACE 1                                          06430000
        LR     R1,R12         COPY DCB ADDRESS           06440000
        SPACE 1                                          06450000
        FREEPOOL (1)          FREE QSAM BUFFERS          06460000
        SPACE 1                                          06470000
*--------------------------------------------------------* 06480000
*        BRING UP EDIT FACILITY FOR INPUT FILE         * 06490000
*--------------------------------------------------------* 06500000
        SPACE 1                                          06510000
EDITSGMT DS    OH                                        06520000
        MVC    TDSN,DSNS      SET SEGMENT FILE NAME?     06530000
        LA     R1,TDSN        POINT TO DSN               06540000
        B      *+8                                       06550000
IDSHLOOP DS    OH                                        06560000
        LA     R1,1(R1)       POINT TO NEXT BYTE         06570000
        CLI    0(R1),C' '     IS THIS A BLANK DELIMETER  06580000
        BNE    IDSHLOOP       NO- CONTINUE               06590000
        MVI    0(R1),C'*'     MOVE IN ASTERISK           06600000
SKIPTDLM DS    OH                                        06610000
        L      R15,ISPLADDR   LOAD ADDRESS OF ISPLINK ROUTINE 06620000
        CALL   (15),(EDIT,TEMPDSN,,,PANEL2),VL           06630000
        SPACE 1                                          06640000
        CH     R15,=H'4'      ABNORMAL RETURN?           06650000
        BH     ERROR09        YES-                       06660000
        BE     BYPASSX        NORMAL RETURN(NOSAVE)      06670000
        MVC    IDCB,=CL8'SGMTFILE'  SET INPUT DDNAME FOR REBLOCK 06680000
        B      TRANLOOP       GO TRANSLATE AGAIN         06690000
BYPASST DS     OH                                        06700000
        SPACE 1                                          06710000
        CLOSE  ((R12))        CLOSE FILE                 06720000
        SPACE 1                                          06730000
        LR     R1,R12         COPY DCB ADDRESS           06740000
        SPACE 1                                          06750000
        FREEPOOL (1)          FREE QSAM BUFFERS          06760000
        SPACE 1                                          06770000
        MVC    MSGID,=CL8'EDIL050'  SET MSGID            06780000
        BAL    R9,SETMSGX     DISPLAY MSG                06790000
        B      DISPPRIM       DISPLAY RESULTS            06800000
BYPASSX DS     OH                                        06810000
        MVC    MSGID,=CL8'EDIL063'  SET MSGID            06820000
        BAL    R9,SETMSGX     DISPLAY MSG                06830000
        B      DISPPRIM       DISPLAY RESULTS            06840000
        SPACE 1                                          06850000
*--------------------------------------------------------* 06860000
*        UNALLOCATE ALL FILES USED                     * 06870000
*--------------------------------------------------------* 06880000
        SPACE 1                                          06890000
ENDSESS DS     OH                                        06900000
        ESTAE  0              CANCEL ESTAE               06910000
        SPACE 1                                          06920000
        LA     R1,DSUNALOC    POINT TO TEXT UNIT LIST    06930000
        ST     R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK 06940000
        MVI    DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE 06950000
        LA     R2,SOLIST      POINT TO SYSOUT LIST       06960000
UNALSYSO DS    OH                                        06970000
        CLI    0(R2),C' '     END OF LIST?               06980000
        BE     UNALDSO        YES-                       06990000
        MVC    TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME 07000000
        BAL    R9,DYNA        GO UNALLOC                 07010000
        B      *+4            ERROR ON UNALLOCATION      07020000
        LA     R2,8(R2)       POINT TO NEXT DDNAME       07030000
        B      UNALSYSO       CONTINUE                   07040000
UNALDSO DS     OH                                        07050000
        LA     R2,DSLISTO     POINT TO DS LIST           07060000
UNALDSXO DS    OH                                        07070000
        CLI    0(R2),C' '     END OF LIST?               07080000
        BE     UNALDSS        YES-                       07090000
        MVC    TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME 07100000
        BAL    R9,DYNA        GO UNALLOCATE FILE         07110000
```

```
        B       *+4             ERROR ON UNALLOCATION           07120000
        LA      R2,L'DCBXNEW(R2) POINT TO NEXT DDNAME           07130000
        B       UNALDSX6        CONTINUE                        07140000
        SPACE 1                                                 07150000
UNALDSS DS      0H                                              07160000
        LA      R2,DSLISTS      POINT TO DS LIST                07170000
UNALDSX5 DS     0H                                              07180000
        CLI     0(R2),C' '      END OF LIST?                    07190000
        BE      CLOSTABL        YES-                            07200000
        MVC     TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME    07210000
        BAL     R9,DYNA         GO UNALLOCATE FILE              07220000
        B       *+4             ERROR ON UNALLOCATION           07230000
        LA      R2,L'DCBXNEW(R2) POINT TO NEXT DDNAME           07240000
        B       UNALDSXS        CONTINUE                        07250000
        SPACE 1                                                 07260000
CLOSTABL DS     0H                                              07270000
        L       R15,ISPLADDR    LOAD ADDRESS OF ISPLINK ROUTINE 07280000
        CALL    (15),(TBCLOSE,VARIABLE),VL                      07290000
        SPACE 1                                                 07300000
        L       R15,ISPLADDR    LOAD ADDRESS OF ISPLINK ROUTINE 07310000
        CALL    (15),(VPUT,SAVLIST,PROFILE),VL                  07320000
        SPACE 1                                                 07330000
*-----------------------------------------------------------* 07340000
*       RESTORE REGISTERS AND RETURN TO CALLER              * 07350000
*-----------------------------------------------------------* 07360000
        SPACE 1                                                 07370000
RETURNX DS      0H                                              07380000
        L       R13,4(,R13)     RESTORE CALLERS SAVE AREA       07390000
        L       R14,12(,R13)             RETURN ADDRESS         07400000
        LM      R0,R12,20(R13)           REGISTERS              07410000
        BR      R14                                             07420000
        SPACE 1                                                 07430000
*-----------------------------------------------------------* 07440000
*       THIS SUBROUTINE WILL UN/ALLOCATE THE FILES NEEDED.  * 07450000
*       RETURN TO THE CALLER WITH A DISPLACEMENT DEPENDING ON* 07460000
*       THE RETURN CODE IN R15.                             * 07470000
*                                                           * 07480000
*       ON ENTRY: R9 => RETURN ADDRESS                      * 07490000
*                                                           * 07500000
*       RETURNS : 0(R9) => ERROR RETURN                     * 07510000
*                 4(R9) => NORMAL RETURN                    * 07520000
*                                                           * 07530000
*-----------------------------------------------------------* 07540000
        SPACE 1                                                 07550000
DYNA    DS      0H                                              07560000
        LA      R1,DYNRBP       SET UP REQUEST BLOCK CHAIN      07570000
        SPACE 1                                                 07580000
        DYNALLOC ,              GO ALLOCATE IT                  07590000
        SPACE 1                                                 07600000
        LTR     R15,R15         ALLOCATION SUCCESSFUL?          07610000
        BNZ     0(R9)           NO- TAKE EXIT RETURN            07620000
        B       4(R9)           TAKE NORMAL RETURN              07630000
        SPACE 1                                                 07640000
*-----------------------------------------------------------* 07650000
*       LOG MESSAGES                                        * 07660000
*-----------------------------------------------------------* 07670000
        SPACE 1                                                 07680000
LOGIT   DS      0H                                              07690000
        L       R15,ISPLADDR    LOAD ADDRESS OF ISPLINK ROUTINE 07700000
        CALL    (15),(LOG,MSGID),VL LOG IT                      07710000
        SPACE 1                                                 07720000
        BR      R9              RETURN                          07730000
        SPACE 1                                                 07740000
*-----------------------------------------------------------* 07750000
*       SET MESSAGES                                        * 07760000
*-----------------------------------------------------------* 07770000
        SPACE 1                                                 07780000
SETMSGX DS      0H                                              07790000
        L       R15,ISPLADDR    LOAD ADDRESS OF ISPLINK ROUTINE 07800000
        CALL    (15),(SETMSG,MSGID),VL LOG IT                   07810000
        SPACE 1                                                 07820000
        BR      R9              RETURN                          07830000
        SPACE 1                                                 07840000
*-----------------------------------------------------------* 07850000
*       ERROR ROUTINES                                      * 07860000
*-----------------------------------------------------------* 07870000
        SPACE 1                                                 07880000
ERROR01 DS      0H              TABLE CREATE ERROR              07890000
        ST      R15,RTNCODE     SAVE RETURN CODE                07900000
        MVC     MSGID,=CL8'EDIL0S1' SET MSG ID FAILURE          07910000
        B       ERROR                                           07920000
        SPACE 1                                                 07930000
ERROR02 DS      0H              ALLOCATION FAILURE              07940000
        ST      R15,RTNCODE     SAVE RETURN CODE                07950000
        MVC     REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE   07960000
        MVC     DDERR,TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG 07970000
        MVC     MSGID,=CL8'EDIL0S2' SET MSG ID FAILURE          07980000
        B       ERROR                                           07990000
        SPACE 1                                                 08000000
ERROR03 DS      0H              ALLOCATION FAILURE              08010000
        ST      R15,RTNCODE     SAVE RETURN CODE                08020000
```

```
          MVC    REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE          08030000
          MVC    DDERR,TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG         08040000
          MVC    MSGID,=CL8'EDIL053' SET MSG ID FAILURE                  08050000
          B      ERROR                                                   08060000
          SPACE 1                                                        08070000
ERROR04   DS     0H                   REBLOCK ERROR                      08080000
          ST     R15,RTNCODE          SAVE RETURN CODE                   08090000
          MVC    MSGID,=CL8'EDIL054' SET MSG ID FAILURE                  08100000
          B      ERROR                                                   08110000
          SPACE 1                                                        08120000
ERROR05   DS     0H                   ATTACH FAILURE                     08130000
          ST     R15,RTNCODE          SAVE RETURN CODE                   08140000
          MVC    MSGID,=CL8'EDIL055' SET MSG ID FAILURE                  08150000
          B      ERROR                                                   08160000
          SPACE 1                                                        08170000
ERROR06   DS     0H                   OPEN FAILURE                       08180000
          MVC    MSGID,=CL8'EDIL056' SET MSG ID FAILURE                  08190000
          B      ERROR                                                   08200000
          SPACE 1                                                        08210000
ERROR07   DS     0H                   TBADD FAILURE                      08220000
          ST     R15,RTNCODE          SAVE RETURN CODE                   08230000
          MVC    MSGID,=CL8'EDIL057' SET MSG ID FAILURE                  08240000
          B      ERROR                                                   08250000
          SPACE 1                                                        08260000
ERROR08   DS     0H                   PARSE SEGMENT                      08270000
          LA     R12,INPDCB           POINT TO INPUTDCB                  08280000
          SPACE 1                                                        08290000
          CLOSE  ((R12))              CLOSE IT                           08300000
          SPACE 1                                                        08310000
          LR     R1,R12               COPY DCB ADDRESS                   08320000
          SPACE 1                                                        08330000
          FREEPOOL (1)                FREE QSAM BUFFERS                  08340000
          SPACE 1                                                        08350000
          LA     R12,OUTDCB           POINT TO OUTPUT DCB                08360000
          SPACE 1                                                        08370000
          CLOSE  ((R12))              CLOSE IT                           08380000
          SPACE 1                                                        08390000
          LR     R1,R12               COPY DCB ADDRESS                   08400000
          SPACE 1                                                        08410000
          FREEPOOL (1)                FREE QSAM BUFFERS                  08420000
          SPACE 1                                                        08430000
          MVC    MSGID,=CL8'EDIL058' SET MSG ID FAILURE                 08440000
          B      ERROR                                                   08450000
          SPACE 1                                                        08460000
ERROR09   DS     0H                   EDIT ERROR                         08470000
          ST     R15,RTNCODE          SAVE RETURN CODE                   08480000
          MVC    MSGID,=CL8'EDIL059' SET MSG ID FAILURE                  08490000
          B      ERROR                                                   08500000
          SPACE 1                                                        08510000
ERROR10   DS     0H                   WORK FILE FORMAT ERROR             08520000
          CLOSE  ((R12))              CLOSE FILE                         08530000
          SPACE 1                                                        08540000
          MVC    MSGID,=CL8'EDIL060' SET MSG ID FAILURE                  08550000
          B      ERROR                                                   08560000
          SPACE 1                                                        08570000
ERROR11   DS     0H                   SEGMENT FILE FORMAT ERROR          08580000
          SPACE 1                                                        08590000
          CLOSE  ((R12))              CLOSE FILE                         08600000
          SPACE 1                                                        08610000
          MVC    MSGID,=CL8'EDIL061' SET MSG ID FAILURE                  08620000
          B      ERROR                                                   08630000
          SPACE 1                                                        08640000
ERROR12   DS     0H                   SYSTEM ABEND                       08650000
          MVC    MSGID,=CL8'EDIL062' SET MSG ID FAILURE                  08660000
          B      ERROR                                                   08670000
          SPACE 1                                                        08680000
ERROR     DS     0H                   EDIT ERROR                         08690000
          BAL    R9,LOGIT             GO LOG IT                          08700000
          BAL    R9,SETMSGX           GO DISPLAY MSG                     08710000
          TM     FLAG1,INIT           ARE WE INITIALIZING?               08720000
          BO     ENDSESS              YES- END SESSION                   08730000
          B      DISPPRIM             NO- DISPLAY PANEL                  08740000
          SPACE 1                                                        08750000
*-------------------------------------------------------------*         08760000
*                                                                       08770000
*         THE FOLLOWING ROUTINE RETRIEVES THE NEXT LOGICAL RECORD       08780000
*         FROM A DASD DATASET.                                          08790000
*                                                                       08800000
*         INPUTS:                                                       08810000
*                                                                       08820000
*         R5  -  RETURN ADDRESS                                         08830000
*                                                                       08840000
*         OUTPUTS:                                                      08850000
*                                                                       08860000
*         R0  -  INPUT RECORD LENGTH                                    08870000
*         R1  -  INPUT RECORD ADDRESS                                   08880000
*                                                                       08890000
*-------------------------------------------------------------*         08900000
          SPACE 2                                                        08910000
READFILE  DS     0H                   ENTRY POINT IDENTIFIER             08920000
          STM    R14,R1,SAVEREGS      SAVE REGISTERS                     08930000
          LA     R12,INPDCB                                              08940000
```

```
        TM      BEDFLAG1,INEOF+PERMIERR  EOF PREVIOUSLY REACHED?    08950000
        BC      NALLOFF,READEOF     YES-                            08960000
        LA      R0,READEOF          POINT TO EOF EXIT ROUTINE       08970000
        STCM    R0,B'0111',DCBEODA  SAVE EODAD ADDR                 08980000
        LA      R0,READSYN          POINT TO SYNAD EXIT ROUTINE     08990000
        STCM    R0,B'0111',DCBSYNA  SAVE SYNAD ADDRESS              09000000
        SPACE 1                                                     09010000
        GET     INPDCB              RETRIEVE NEXT RECORD            09020000
        SPACE 1                                                     09030000
        TM      DCBRECFM,DCBRECU    RECFM U?                        09040000
        BC      ALLON,RECU          YES-                            09050000
        TM      DCBRECFM,DC3RECV    RECFM V?                        09060000
        BC      ALLON,RECV          YES-                            09070000
        SPACE 1                                                     09080000
*       UNDEFINED OR FIXED LENGTH RECORD FORMAT                     09090000
        SPACE 1                                                     09100000
RECU    DS      0H                                                  09110000
        LH      R0,DCBLRECL         LOAD RECORD LENGTH READ         09120000
        LTR     R0,R0               UNBLOCKED RECORDS?              09130000
        BC      NZERO,READF200      NO-                             09140000
        LH      R0,DCBBLKSI         RETRIEVE BLOCKSIZE              09150000
        B       READF200            RETURN                          09160000
        SPACE 1                                                     09170000
*       VARIABLE LENGTH RECORD FORMAT                              09180000
        SPACE 1                                                     09190000
RECV    DS      0H                                                  09200000
        LH      R0,0(,R1)           RETRIEVE VARIABLE RECORD LENGTH 09210000
        LA      R1,4(,R1)           POINT TO DATA PORTION OF RECORD 09220000
        S       R0,=F'4'            ADJUST LENGTH FOR RDW           09230000
        B       READF200            RETURN                          09240000
READEOF DS      0H                                                  09250000
        SLR     R0,R0               CLEAR READ LENGTH               09260000
        OI      BEDFLAG1,INEOF      SET EOF ENCOUNTERED             09270000
READCLS DS      0H                                                  09280000
        TM      DCBOFLGS,DCBOFOPN   IS DATA SET OPEN?               09290000
        BC      ALLOFF,READF200     NO-                             09300000
        SPACE 1                                                     09310000
        CLOSE ((R12))               CLOSE IT                        09320000
        SPACE 1                                                     09330000
        LR      R1,R12              COPY DCB ADDRESS                09340000
        SPACE 1                                                     09350000
        FREEPOOL (1)                FREE QSAM BUFFERS               09360000
        SPACE 1                                                     09370000
        SLR     R0,R0               SET LENGTH                      09380000
        B       READF300                                            09390000
READSYN DS      0H                                                  09400000
        SYNADAF ACSMETH=QSAM        REQUEST FORMATTED MESSAGE       09410000
        SPACE 1                                                     09420000
*       MVC     SYNADTXT,50(R1)     COPY MESSAGE TEXT               09430000
        SPACE 1                                                     09440000
*       COMMSGS TEXT=MSG230         NOTIFY OPERATOR                 09450000
        SPACE 1                                                     09460000
        SYNADRLS                    RELEASE BUFFERS                 09470000
        SPACE 1                                                     09480000
        OI      BEDFLAG1,PERMIERR   SET PERMANENT INPUT ERROR       09490000
        B       READCLS             GO CLOSE IF NECESSARY           09500000
        SPACE 1                                                     09510000
*-----------------------------------------------------------*      09520000
*       NORMAL RETURN                                        *      09530000
*-----------------------------------------------------------*      09540000
        SPACE 1                                                     09550000
READF200 DS     0H                                                  09560000
        ST      R1,MOVESTAT+8       SAVE FOR SEGMENT ROUTINE        09570000
        ST      R0,MOVESTAT+12      SAVE                            09580000
READF300 DS     0H                                                  09590000
        LM      R14,R1,SAVEREGS     RESTORE REGISTERS               09600000
        BR      R5                                                  09610000
        SPACE 2                                                     09620000
*-----------------------------------------------------------*      09630000
*       FIND SEGMENT ROUTINE                                 *      09640000
*                                                            *      09650000
*       SUBROUTINE TO PROCESS THE HEADER RECORD AND PICK     *      09660000
*       OUT THE DATA ELEMENT AND SEGMENT SEPERATORS TO       *      09670000
*       DYNAMICALLY MAKE TO TRANSLATE TABLES.                *      09680000
*                                                            *      09690000
*       INPUT   - R9  - RETURN ADDRESS                       *      09700000
*       MOVESTAT+ 0 - ADDRESS OF SEGMENT BUILD AREA          *      09710000
*       MOVESTAT+ 4 - LENGTH OF SEGMENT BUILD AREA           *      09720000
*       MOVESTAT+ 8 - ADDRESS OF ANSI/UNJEDI RECORD          *      09730000
*       MOVESTAT+12 - LENGTH OF ANSI/UNJEDI RECORD           *      09740000
*                                                            *      09750000
*-----------------------------------------------------------*      09760000
        SPACE 3                                                     09770000
FINDSGMT DS     0H                                                  09780000
        XC      MOVESTAT(8),MOVESTAT RESET STATS OF BUILD AREA      09790000
        LM      R14,R15,MOVESTAT+8  GET WHERE LEFT OFF IN RECORD    09800000
        LTR     R15,R15             ANY BYTES LEFT TO PROCESS?      09810000
        BNP     FNDHSTRT            NO-                             09820000
        BCTR    R15,0               YES- GET EXECUTABLE LENGTH      09830000
        LA      R5,TABLE01          GET TABLE ADDRESS               09840000
        EX      R15,ENDALPHA        FIND SEGMENT ID                 09850000
```

```
        BZ      FNDS0030              NOT FOUND                          09860000
        LA      R15,1(R15,R14)        POINT PAST LAST BYTE OF RECORD     09870000
        LR      R14,R1                COPY ADDRESS OF SEGMENT ID         09880000
        SR      R15,R14               GET LENGTH LEFT                    09890000
FNDS0070 DS     0H                                                       09900000
        STM     R14,R15,MOVESTAT+8    RESET STATS                        09910000
        B       FNDHSTRT              CONTINUE                           09920000
FNDS0030 DS     0H                                                       09930000
        LA      R15,0                 SET ZERO BYTES LEFT OF THIS RECORD 09940000
        B       FNDS0070              CONTINUE                           09950000
FNDALPHA TRT    0(0,R14),0(R5)                                           09960000
FNDHSTRT DS     0H                                                       09970000
        ICM     R0,B'1111',MOVESTAT+12 FINISHED READING RECORD?         09980000
        BNZ     FNDS0090              NO-                                09990000
        SPACE   1                                                        10000000
        BAL     R5,READFILE           RETRIEVE NEXT INPUT RECORD         10010000
        TM      BEDFLAG1,INEOF        EOF REACHED?                       10020000
        BO      FNDH1300              YES-                               10030000
        SPACE   1                                                        10040000
        LM      R14,R15,MOVESTAT+8    GET RECORD ADDRESS/LENGTH          10050000
FNDS0090 DS     0H                                                       10060000
        ICM     R0,B'1111',MOVESTAT+4 FINISHED BUILDING RECORD?         10070000
        BNZ     FNDS0100              NO-                                10080000
        L       R1,BUFFER             NO- GET ADDRESS OF BUILD AREA      10090000
        ST      R1,MOVESTAT           SAVE IT                            10100000
        LA      R1,L'ERRBUFF          GET LENGTH OF BUILD AREA           10110000
        ST      R1,MOVESTAT+4         SAVE IT                            10120000
FNDS0100 DS     0H                                                       10130000
        CLC     SEP,0(R14)            NO- SEPARATOR?                     10140000
        BE      FNDH0900              YES-                               10150000
FNDS0500 DS     0H                                                       10160000
        LA      R14,1(R14)            NO- POINT TO NEXT BYTE             10170000
        BCT     R15,FNDS0100          PROCESS REST OF RECORD             10180000
FNDS0600 DS     0H                                                       10190000
        S       R1,MOVESTAT+12        UPDATE DISPLACEMENT OF SEPARATOR   10200000
        STH     R1,ELMTCTR            SAVE IT                            10210000
        LM      R14,R1,MOVESTAT       GET MOVE STATS                     10220000
        CR      R15,R1                RECV LGTH > SEND LGTH?             10230000
        BNH     FNDHERR               NO- ERROR                          10240000
        LR      R15,R1                SET RECV LGTH TO SEND LGTH         10250000
        MVCL    R14,R0                MOVE TO RECORD BUILD AREA          10260000
        L       R15,MOVESTAT+4        GET MAX LGTH OF BUILD AREA         10270000
        S       R15,MOVESTAT+12       MINUS ACTUAL BYTES MOVE            10280000
        STM     R14,R1,MOVESTAT       SAVE MOVE STAT                     10290000
        B       FNDHSTRT              GO READ ANOTHER RECORD             10300000
FNDH0900 DS     0H                                                       10310000
        S       R14,MOVESTAT+8        CALC LGTH OF REST OF SEGMENT       10320000
        LA      R1,1(R14)             ADD ONE FOR SEGMENT                10330000
        B       FNDH1000              GO MOVE TO BUILD AREA              10340000
FNDH1000 DS     0H                                                       10350000
        LM      R14,R0,MOVESTAT       SET UP FOR MOVE                    10360000
        CR      R15,R1                RECV LGTH > SEND LGTH?             10370000
        BH      FNDH1100              YES-                               10380000
        LR      R1,R15                NO- SET SEND LGTH TO RECV LGTH     10390000
        B       FNDH1200                                                 10400000
FNDH1100 DS     0H                                                       10410000
        LR      R15,R1                SET RECV LGTH TO SEND LGTH         10420000
FNDH1200 DS     0H                                                       10430000
        LTR     R15,R15               LENGTH POSITIVE?                   10440000
        BNP     FNDH1400              NO-                                10450000
        CH      R15,=H'256'           YES- TOO BIG?                      10460000
        BH      FNDH1400              YES-                               10470000
        MVCL    R14,R0                MOVE TO RECORD BUILD AREA          10480000
        LR      R15,R0                GET ADDR PAST SEPERATOR            10490000
        S       R15,MOVESTAT+8        CALC BYTES MOVED                   10500000
        L       R1,MOVESTAT+12        GET TOTAL BYTES IN RECORD          10510000
        SR      R1,R15                CALC RESIDUAL BYTE COUNT           10520000
        STM     R0,R1,MOVESTAT+8      SAVE FOR LATER                     10530000
        L       R15,BUFFER            GET BEGINNING OF RECORD            10540000
        SR      R14,R15               CALC LENGTH OF RECORD              10550000
        LA      R14,4(R14)            ADD LENGTH OF RDW                  10560000
        L       R15,BUFFRDW           GET ADDRESS OF RDW                 10570000
        STCM    R14,B'0011',0(R15)    SET RDW                           10580000
        B       FNDHNORM              RETURN                             10590000
FNDH1300 DS     0H                                                       10600000
        CLC     MOVESTAT+4(4),BEDZERO STILL BUILDING A SEGMENT?         10610000
        BE      FNDHEOF               NO-                                10620000
        B       FNDHERR               YES- END OF SEGMENT MISSING        10630000
FNDH1400 DS     0H                                                       10640000
        STM     R14,R1,MOVESTAT       SAVE REGISTERS                     10650000
        ABEND   8,DUMP                                                   10660000
        SPACE   1                                                        10670000
*-----------------------------------------------------------------*     10680000
*       +0      ERROR RETURN                                      *      10690000
*-----------------------------------------------------------------*     10700000
        SPACE   1                                                        10710000
FNDHERR DS      0H                                                       10720000
        B       0(R9)                                                    10730000
        SPACE   1                                                        10740000
*-----------------------------------------------------------------*     10750000
*       +4      EOF RETURN                                        *      10760000
*-----------------------------------------------------------------*     10770000
        SPACE   1                                                        10780000
FNDHEOF DS      0H                                                       10790000
        B       4(R9)                                                    10800000
```

```
            SPACE 1                                                 10810000
X----------------------------------------------------------X        10820000
X          +8    NORMAL RETURN                              X        10830000
X----------------------------------------------------------X        10840000
            SPACE 1                                                 10850000
FNDHNORM DS     OH                                                  10860000
         B      8(R9)                                               10870000
            SPACE 1                                                 10880000
TABLE01  SCNTBL CHARSET=ALPHA,FUNC=LOCATE                           10890000
            SPACE 1                                                 10900000
TBABEND  DS     OH                                                  10910000
         PUSH   USING                                               10920000
         DROP                                                       10930000
         USING  X,R15                                               10940000
         CH     R0,=H'12'         SDWA PRESENT?                     10950000
         BNE    AAABEND1          YES-                              10960000
X          RETURN TO RTM, ATTEMPTING RECOVERY:                      10970000
            SPACE 1                                                 10980000
         LA     R0,AAABEND2       POINT TO REINSTATEMENT ROUTINE    10990000
         LA     R15,4             INDICATE TASK IS TO BE REINSTATED  11000000
         BR     R14               RETURN TO RTM                     11010000
            SPACE 1                                                 11020000
AAABEND1 DS     OH                                                  11030000
         STM    R14,R12,12(R13)   SAVE REGS                         11040000
         LR     R10,R15           SET BASE                          11050000
         USING  TBABEND,R10                                         11060000
         DROP   R15                                                 11070000
         LR     R4,R1             SDWA ADR                          11080000
         USING  SDWA,R4                                             11090000
         L      R2,SDWAPARM       GET BASE REGISTER                 11100000
         USING  EDITSBED,R2       GET ADDRESSABILITY                11110000
         LA     R3,2048(,R2)      SET 2ND BASE REG                  11120000
         LA     R3,2048(,R3)                                        11130000
         USING  EDITSBED+4096,R3                                    11140000
         ICM    R1,B'0111',SDWACMPC  GET COMPLETION CODE            11150000
         DROP   R4                                                  11160000
         SRL    R1,12                                               11170000
         N      R1,=X'00000FFF'                                     11180000
         ST     R1,RTHCODE        SAVE IT                           11190000
            SPACE 1                                                 11200000
         SETRP  REGS=(14,12),                                      +11210000
                RC=4,RETADDR=AAABEND2,FRESDWA=YES,WKAREA=(4)        11220000
            SPACE 1                                                 11230000
         POP    USING                                               11240000
            SPACE 2                                                 11250000
AAABEND2 DS     OH                                                  11260000
         LR     R10,R1            SET BASE REGISTER                 11270000
         LA     R11,2048(,R10)    SET 2ND BASE REG                  11280000
         LA     R11,2048(,R11)                                      11290000
         L      R2,=A(ERROR12)    POINT TO RESTART ADDRESS          11300000
         BR     R2                GO TO IT                          11310000
            SPACE 1                                                 11320000
         LTORG                                                      11330000
         EJECT                                                      11340000
X----------------------------------------------------------X        11350000
X          MISC DATA AREA                                   X        11360000
X----------------------------------------------------------X        11370000
            SPACE 1                                                 11380000
ZUSER    DC     CL8' '                                             11390000
XLATOR   DC     A(0)                                               11400000
SAVEAREA DC     18F'0'                                             11410000
SAVEREGS DC     18F'0'                                             11420000
DBLWORD  DC     D'0'                                               11430000
BUFFRDW  DC     A(ERRRDW)         POINT TO RDW                      11440000
BUFFER   DC     A(ERRBUFF)        POINTER TO ERROR BUFFER           11450000
MSGID    DC     CL8' '            MESSAGE ID                        11460000
DCBNAMES DC     AL2(L'IDCB+L'ODCB+L'EDCB)  LENGTH OF DDNAMES        11470000
IDCB     DC     CL8' '            INPUT DCB FOR REBLOCK             11480000
ODCB     DC     CL8' '            OUTPUT DCB FOR REBLOCK            11490000
EDCB     DC     CL8'REBLKERR'     SYSPRINT DCB FOR REBLOCK          11500000
ISPLADDR DC     A(0)                                               11510000
TEMPDSN  DC     C'...'                                             11520000
IDSN     DC     CL44' '                                            11530000
MOVESTAT DC     4F'0'                                              11540000
BEDZERO  DC     D'0'              CONSTANT ZEROS                    11550000
BEDBLANK DC     CL8' '            CONSTANT BLANK                    11560000
ELMTCTR  DC     H'0'                                               11570000
BEDFLAG1 DC     X'00'                                              11580000
INEOF    EQU    X'80'             END OF FILE                       11590000
PERMIERR EQU    X'40'             ERROR READING INPUT FILE          11600000
SEP      DC     X'00'             SEGMENT SEPARATOR                 11610000
FLAG1    DC     X'00'             MISC FLAG                         11620000
INIT     EQU    X'80'             INITIALIZING                      11630000
            SPACE 1                                                 11640000
X----------------------------------------------------------X        11650000
X          DYNAMIC ALLOCATION CONTROL BLOCKS                X        11660000
X----------------------------------------------------------X        11670000
            SPACE 1                                                 11680000
DYNRBP   DC     0F'0',X'80',AL3(DYNRB)                             11690000
DYNRB    DC     XL(S99RBEND-S99RB)'00'                             11700000
         ORG    DYNRB+S99R3LN-S99RB                                11710000
         DC     AL1(S99RBEND-S99RB)                                11720000
```

```
           ORG    DYNRB+S99VERB-S99RB                          11730000
           DC     AL1(S99VRBAL)                                11740000
           ORG    DYNRB+S99FLAG1-S99RB                         11750000
           DC     AL1(S99NOCNV)                                11760000
           ORG                                                 11770000
SOALLOC    DC     A(TXTDD),AL1(128),AL3(TXTSO)                 11780000
DSCONCLS   DC     AL1(128),AL3(TXTCONC)                        11790000
DSALLOCS   DC     A(TXTDD,TXTDSN),AL1(128),AL3(TXTSHR)         11800000
DSALLOCO   DC     A(TXTDD,TXTDSN),AL1(128),AL3(TXTOLD)         11810000
DSUNALOC   DC     AL1(128),AL3(TXTDD)                          11820000
DSUNCONC   DC     AL1(128),AL3(TXTDDU)                         11830000
DSALLOCN   DC     A(TXTDD)                                     11840000
           DC     A(TXTDSN)                                    11850000
           DC     A(TXTNEW)                                    11860000
           DC     A(TXTNDISP)                                  11870000
           DC     A(TXTCDISP)                                  11880000
           DC     A(TXTUNITX)                                  11890000
           DC     A(TXTTRK)                                    11900000
           DC     A(TXTPRIME)                                  11910000
           DC     A(TXTSECND)                                  11920000
           DC     A(TXTRECFM)                                  11930000
           DC     A(TXTLRECL)                                  11940000
           DC     AL1(128),AL3(TXTBLKSZ)                       11950000
TXTCONC    DC     AL2(DCCDDNAM,2,8),CL8' ',AL2(8)              11960000
TXTCONCX   DC     CL8' '                                       11970000
TXTTRK     DC     AL2(DALTRK,0)                                11980000
TXTNEW     DC     AL2(DALSTATS,1,1),X'04'                      11990000
TXTNDISP   DC     AL2(DALNDISP,1,1),X'02'                      12000000
TXTCDISP   DC     AL2(DALCDISP,1,1),X'04'                      12010000
TXTRECFM   DC     AL2(DALRECFM,1,1),X'40'                      12020000
TXTLRECL   DC     AL2(DALLRECL,1,2),X'0202'                    12030000
TXTBLKSZ   DC     AL2(DALBLKSZ,1,2),X'3C40'                    12040000
TXTPRIME   DC     AL2(DALPRIME,1,3),X'000096'                  12050000
TXTSECND   DC     AL2(DALSECND,1,3),X'000000'                  12060000
TXTUNITX   DC     AL2(DALUNIT,1,5),CL5'SPACE'                  12070000
TXTOLD     DC     AL2(DALSTATS,1,1),X'01'                      12080000
TXTDD      DC     AL2(DALDDNAM,1,8),CL8' '                     12090000
TXTDDU     DC     AL2(DDCDDNAM,1,8),CL8' '                     12100000
TXTDSN     DC     AL2(DALDSNAM,1,44),CL44' '                   12110000
TXTSO      DC     AL2(DALSYSOU,1,1),C'W'                       12120000
TXTSHR     DC     AL2(DALSTATS,1,1),X'08'                      12130000
           SPACE  1                                            12140000
*------------------------------------------------------------* 12150000
*          SYSOUT DDNAME LIST                                 * 12160000
*------------------------------------------------------------* 12170000
           SPACE  1                                            12180000
SOLIST     DC     CL8'MONITOR'                                 12190000
           DC     CL8'MYOUT'                                   12200000
           DC     CL8'REPORT'                                  12210000
           DC     CL8'SYSOUT'                                  12220000
           DC     CL8'MPT'                                     12230000
           DC     CL8'SBG'                                     12240000
           DC     CL8'EEO'                                     12250000
           DC     CL8'JSP'                                     12260000
           DC     CL8'REBLKERR'                                12270000
           DC     CL8' '                                       12280000
           SPACE  1                                            12290000
*------------------------------------------------------------* 12300000
*          DDNAME-DSNAME LIST FOR DISP=SHR                    * 12310000
*------------------------------------------------------------* 12320000
           SPACE  1                                            12330000
DSLIST     DC     CL8'ANSI'                                    12340000
DSNAT      DC     CL44' '                                      12350000
           DC     CL8'ANSIP'                                   12360000
DSNAP      DC     CL44' '                                      12370000
           DC     CL8'APPLOUT'                                 12380000
DSNXP      DC     CL44' '                                      12390000
           DC     CL8'APPLOUTX'                                12400000
DSNXT      DC     CL44' '                                      12410000
           DC     CL8'CNT'                                     12420000
DSNCT      DC     CL44' '                                      12430000
           DC     CL8'CNTP'                                    12440000
DSNCP      DC     CL44' '                                      12450000
           DC     CL8'IDS'                                     12460000
DSNIT      DC     CL44' '                                      12470000
           DC     CL8'IDSP'                                    12480000
DSNIP      DC     CL44' '                                      12490000
           DC     CL8'COND'                                    12500000
DSNOT      DC     CL44' '                                      12510000
           DC     CL8'CONDX'                                   12520000
DSNOP      DC     CL44' '                                      12530000
           DC     CL8'VSAM',CL44'VAAEX.EDIS.D.TEST.RECOVERY'   12540000
           DC     CL8' '                                       12550000
           SPACE  1                                            12560000
*------------------------------------------------------------* 12570000
*          DDNAME-ALLOC LIST FOR DISP=SHR                     * 12580000
*------------------------------------------------------------* 12590000
           SPACE  1                                            12600000
DSLISTS    DC     CL8'SONLG',X'90',X'0050',X'1810',X'000005'   12610000
           DC     CL8' '                                       12620000
           SPACE  1                                            12630000
*------------------------------------------------------------* 12640000
```

```
*          DDNAME-ALLOC LIST FOR DISP=OLD                          *  12650000
*-------------------------------------------------------------------* 12660000
           SPACE 1                                                     12670000
DSLISTO    DC    CL8'FAOUT',X'50',X'0800',X'5004',X'000032'            12680000
           DC    CL8'OUTPUT',X'50',X'0800',X'5004',X'000064'           12690000
           DC    CL8'TESTBED2',X'50',X'0C37',X'618C',X'000005'         12700000
           DC    CL8'TESTBED',X'50',X'0800',X'5004',X'000001'          12710000
           DC    CL8'REJECT',X'50',X'0804',X'5028',X'000028'           12720000
           DC    CL8'RECOV',X'50',X'0804',X'5028',X'000028'            12730000
           DC    CL8'STORE',X'90',X'0050',X'1810',X'000010'            12740000
           DC    CL8' '                                                12750000
           SPACE 1                                                     12760000
*-------------------------------------------------------------------* 12770000
*          DEFINITION OF PROGRAM STORAGE FOR PANEL VARIABLES         * 12780000
*-------------------------------------------------------------------* 12790000
           SPACE 1                                                     12800000
DSN        DC    CL44' '                                               12810000
DSNW       DC    CL44' '                                               12820000
DSNS       DC    CL44' '                                               12830000
DSNL       DC    CL44' '                                               12840000
STD        DC    CL8' '                                                12850000
RLS        DC    CL5' '                                                12860000
VERS       DC    CL12' '                                               12870000
AGCY       DC    CL2' '                                                12880000
REAS       DC    CL71' '                                               12890000
LASTSEG    DC    CL6' '                                                12900000
NUMB       DC    CL6' '                                                12910000
TRANDATA   EQU   STD,*-STD,C'C'                                        12920000
           DS    0F                                                    12930000
RTNCODE    DC    CL4' '                                                12940000
REEZCODE   DC    CL2' '                                                12950000
DDERR      DC    CL8' '                                                12960000
           SPACE 1                                                     12970000
*-------------------------------------------------------------------* 12980000
*          DEFINITION OF ISPF SERVICE REQUESTS                       * 12990000
*-------------------------------------------------------------------* 13000000
           SPACE 1                                                     13010000
DISPLAY    DC    CL8'DISPLAY'                                          13020000
EDIT       DC    CL8'EDIT'                                             13030000
PRIMARY    DC    CL8'EDITB'                                            13040000
PANEL2     DC    CL8'EDITB1'                                           13050000
PANEL3     DC    CL8'EDITB2'                                           13060000
CONTROL    DC    C'CONTROL'                                            13070000
SELECT     DC    C'SELECT'                                             13080000
ERRORS     DC    C'ERRORS'                                             13090000
RETURN     DC    C'RETURN'                                             13100000
VDEFINE    DC    CL8'VDEFINE'                                          13110000
VGET       DC    CL8'VGET'                                             13120000
VPUT       DC    CL8'VPUT'                                             13130000
PROFILE    DC    CL8'PROFILE'                                          13140000
SHARED     DC    CL8'SHARED'                                           13150000
CHAR       DC    CL8'CHAR'                                             13160000
HEX        DC    CL8'HEX'                                              13170000
TBCREATE   DC    CL8'TBCREATE'                                         13180000
TBDISPL    DC    CL8'TBDISPL'                                          13190000
TBADD      DC    CL8'TBADD'                                            13200000
TBTOP      DC    CL8'TBTOP'                                            13210000
TBSARG     DC    CL8'TBSARG'                                           13220000
TBCLOSE    DC    CL8'TBCLOSE'                                          13230000
LOG        DC    CL8'LOG'                                              13240000
SETMSG     DC    CL8'SETMSG'                                           13250000
VARTABLE   DC    CL8'VARTABLE'                                         13260000
NOWRITE    DC    CL8'NOWRITE'                                          13270000
VARLIST    DC    C'(TBNUMB TBREAS)'                                    13280000
SAVLIST    DC    C'(TBDSN TBDSNW TBDSNS TBDSNAT TBDSNAP TBDSNCT TBDSNCP T*13290000
               BDSNIT TBDSNIP TBDSNXT TBDSNXP TBDSNOT TBDSNOP TBDSNL)'  13300000
USERLIST   DC    C'(ZUSER)'                                            13310000
           SPACE 1                                                     13320000
*-------------------------------------------------------------------* 13330000
*          DEFINITION OF LENGTH OF PANEL VARIABLES                   * 13340000
*-------------------------------------------------------------------* 13350000
           SPACE 1                                                     13360000
LENGTH2    DC    F'2'                                                  13370000
LENGTH4    DC    F'4'                                                  13380000
LENGTH5    DC    F'5'                                                  13390000
LENGTH6    DC    F'6'                                                  13400000
LENGTH8    DC    F'8'                                                  13410000
LENGTH11   DC    F'11'                                                 13420000
LENGTH12   DC    F'12'                                                 13430000
LENGTH44   DC    F'44'                                                 13440000
LENGTH71   DC    F'71'                                                 13450000
           SPACE 1                                                     13460000
*-------------------------------------------------------------------* 13470000
*          DEFINITION OF PANEL VARIABLES                             * 13480000
*-------------------------------------------------------------------* 13490000
           SPACE 1                                                     13500000
SELCMD     DC    C'CMD(ZEDITB)'                                        13510000
ZUSERLIT   DC    C'(ZUSER)'                                            13520000
DSNLIT     DC    C'(TBDSN)'                                            13530000
DSNHLIT    DC    C'(TBDSNW)'                                           13540000
DSNSLIT    DC    C'(TBDSNS)'                                           13550000
DSNLLIT    DC    C'(TBDSNL)'                                           13560000
DSNALIIT   DC    C'(TBDSNAT)'                                          13570000
```

```
DSNALITP DC    C'(TBDSNAP)'                                              13580000
DSNCLITT DC    C'(TBDSNCT)'                                              13590000
DSNCLITP DC    C'(TBDSNCP)'                                              13600000
DSNILITT DC    C'(TBDSNIT)'                                              13610000
DSNILITP DC    C'(TBDSNIP)'                                              13620000
DSNXLITT DC    C'(TBDSNXT)'                                              13630000
DSNXLITP DC    C'(TBDSNXP)'                                              13640000
DSNOLITT DC    C'(TBDSNOT)'                                              13650000
DSNOLITP DC    C'(TBDSNOP)'                                              13660000
STDLIT   DC    C'(TBSTD)'                                                13670000
RLSLIT   DC    C'(TBRLS)'                                                13680000
VERSLIT  DC    C'(TBVER)'                                                13690000
AGCYLIT  DC    C'(TA)'                                                   13700000
REASLIT  DC    C'(TBREAS)'                                               13710000
NUMBLIT  DC    C'(TBNUMB)'                                               13720000
LASTLIT  DC    C'(TLASTS)'                                               13730000
RTC      DC    C'(RTC)'                                                  13740000
REEZ     DC    C'(REEZ)'                                                 13750000
DD       DC    C'(DD)'                                                   13760000
         SPACE 1                                                         13770000
*------------------------------------------------------------------*    13780000
*        DCB'S                                                      *    13790000
*------------------------------------------------------------------*    13800000
         SPACE 1                                                         13810000
ERRDCB   DCB   DDNAME=TESTBED2,DSORG=PS,MACRF=GM                         13820000
         SPACE 1                                                         13830000
INPDCB   DCB   DDNAME=INPUT,DSORG=PS,MACRF=GL                            13840000
         SPACE 1                                                         13850000
OUTDCB   DCB   DDNAME=SGMTFILE,DSORG=PS,MACRF=PM                         13860000
         SPACE 1                                                         13870000
STOREDCB DCB   DDNAME=STORE,DSORG=PS,MACRF=PM                            13880000
         SPACE 1                                                         13890000
LOGDCB   DCB   DDNAME=LOG,DSORG=PS,MACRF=PM                              13900000
         SPACE 1                                                         13910000
OUTDCBX  DCB   DDNAME=SGMTFILE,DSORG=PS,MACRF=GL                         13920000
         SPACE 1                                                         13930000
         LTORG                                                          13940000
         SPACE 1                                                         13950000
ERRRDW   DC    AL2(*-*,0)                                                13960000
ERRBUFF  DS    XL3123                 ERROR BUFFER RECORD                13970000
BDMODNUM DC    CL8'MD00049'           EDI MOD NUMBER                     99999996
         END                                                            99999999
```

What is claimed is:

1. A method for interactively translating electronic data interchange files, comprising the steps of:

    (a) generating a plurality of displays for interactively controlling the translation of an electronic data interchange file;

    (b) translating said electronic data interchange file until a translation error exists;

    (c) displaying said translation error on at least one of said plurality of displays so that said translation error may be corrected interactively;

    (d) correcting said displayed translation error in response to data entered on said at least one of said plurality of displays; and

    (e) repeating steps (a) through (d) until no translation error exists.

2. The method of claim 1, wherein said electronic data interchange file comprises transaction data to be communicated from a sending computer to a receiving computer and said translating step occurs after communicating said electronic data interchange file to said receiving computer.

3. The method of claim 2, wherein said correcting step further comprises the steps of:

    forming a segment file for containing a portion of said electronic data interchange file where said portion includes said translation error;

    placing said portion of said electronic data interchange file into said segment file;

    displaying said portion on said at least one of said plurality of displays for correcting said translation error; and

    forming a working file comprising all correctly translated portions of said electronic data interchange file.

4. The method of claim 2, wherein said displaying and correcting steps occur interactively without the need to retranslate all previously translated portions of said electronic data interchange file.

5. The method of claim 1, further comprising the step of logging each of said translation error occurring during the translation of said electronic data interchange file.

6. The method of claim 1, further comprising the step of forming a working file of all correctly translated portions of said electronic data interchange file.

7. A programmable machine system for interactively translating business transaction data between a plurality of different dictionary-structured transaction formats, said machine system including a plurality of system components, said machine system comprising:

    output circuitry for generating a plurality of visible signals corresponding to the status of translation of said business transaction data from one format to another predetermined format;

    translation circuitry for translating said business transaction data into said predetermined format;

    error detection and reporting circuitry for detecting the existence of a translation error and communicating said translation error to said output circuitry;

    editing circuitry for interactively receiving corrections to said business transaction data and for modifying said business transaction data in response to said corrections generating corrected business transaction data; and

    said translation circuitry translating said corrected business transaction data.

* * * * *